UUU	UUU	EEEEEEEEEEEEE		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PP
UUU	UUU	EEEEEEEEEEEEE	TTTTTTTTTTTTTTT	PPPPPPPPPP	
UUU	UUU	EEE	III	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE EEE EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	ŤŤŤ	PPP	PPP
UUU	UUU	EEEEEEEEEE	ŤŤŤ	PPPPPPPPPP	
UUU	UUU	EEEEEEEEEE	ŤŤŤ	PPPPPPPPPP	
UUU	ŬŬŬ	EEEEEEEEEEE	ŤŤ	PPPPPPPPPP	
UUU	ŬŬŬ	EEE	ŤŤ	PPP	
ŬŬŬ	ŬŬŬ	EEE	ŤŤŤ	PPP	
ÜÜÜ	ÜÜÜ	ĒĒĒ	iii	PPP	
UUU	UUU	ĒĒĒ	ttt	PPP	
UUU	UUU	ĒĒĒ	tit	PPP	
UUU	UUU	EEE	tit		
		CECCECECECECEC		PPP	
UUUUUUU		EEEEEEEEEEEEE	III	PPP	
UUUUUUU		EEEEEEEEEEEEE	III	PPP	
UUUUUUUU	UUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	

Va 000 000 7F1 7F1 7F1 7F1 7F1 7F1 7F1

000000

	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	MM MM MMM MMM MMMM MMMM MMM MM MM MM MM	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	000000 000000 00 00 00 00
	\$\$\$\$\$\$\$\$\$ \$					

Page

VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 10-SEP-1984 12:03:55 VAX/VMS Macro V04-00 CUETP.SRCJUETDMPF00.MAR; 2

.TITLE UETDMPFOO VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF-32 Sync Line .IDENT 'VO4-OC1'

(1)

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: FACILITY:

This module will be distributed with VAX/VMS under the [SYSTEST] account.

ABSTRACT:

This is the test program for DMP 11 / DMF 32 sync line device test

ENVIRONMENT: This program will run in user access mode, with AST enabled except during error processing. This program requires the following privileges and quotas: none.

AUTHOR: Paul Jeng, CREATION DATE: Sep. 1981

MODIFIED BY:

V04-001 RNH0009 Richard N. Holstein, 07-Sep-1984 Remove entirely the forced error for too big a buffer, since either SS\$_BADPARAM or SS\$_EXQUOTA could be returned depending on SYSGEN parameters.

RNH0008 Richard N. Holstein, 07-Apr-1984
Adapt to driver fix which allocated write buffers dynamically we can't force an SS\$_BADPARAM unless we exceed absolute max. V03-010 RNH0008

V03-009 RNH0007 Richard N. Holstein, 15-Feb-1984 Take advantage of the new UETP message codes. Fix SSERROR

2222345678901

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0000	58 :		interaction with RMS_ERROR.
0000 60	60	v03-008	RNH0006 Richard N. Holstein, 19-Dec-1983 Give correct sentinels to Test Controller.
0000	63 :	v03-007	RNH0005 Richard N. Holstein, 11-Nov-1983 Use decimal conversion routine for unit numbers.
0000	66 :	v03-006	RNH0004 Richard N. Holstein, 29-Jun-1983 Rework error messages and error processing.
0000	69	v03-005	RNH0003 Richard N. Holstein, 11-Mar-1983 Don't signal ending message in EXIT_HANDLER.
0000 0000 0000	72 73	v03-004	RNH0002 Richard N. Holstein, 01-Mar-1983 Fix ERROR_COUNT bug.
0000 0000 0000	75 76	v03-003	LDJ0002 Larry D. Jones, 10-Feb-1983 Allow for longer device names.
0000 0000	78 : 79 :	v03-002	LDJ0001 Larry D. Jones, 06-Nov-1982 Fixed a loop mode assign channel bug.
0000 0000 0000 0000	5561234566789012345678901234 888888888888888888888888888888888888	v03-001	RNH0001 Richard N. Holstein, 15-Oct-1982 Miscellaneous fixes listed in the V3B UETP Workplan.
0000	04 ,		

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VAX/VMS VETP DEVICE TEST FOR DMP 11/
                                                                                                16-SEP-1984 01:24:05 VAX/VMS Macro V04-00
10-SEP-1984 12:03:55 EUETP.SRCJUETDMPF00.MAR;2
           Declarations
                     .SBTTL Declarations
                                                INCLUDE FILES:
                                                                                                               for general definitions for UETP definitions
                                                             SYS$LIBRARY:LIB.MLB
                                                             SHRLIBS: UETP. MLB
                                   945
967
989
1001
1003
1004
1007
                                                MACROS:
                                                             SCHFDEF
                                                                                                                                    Condition handler frame definitions
                                                                                                                                    Device definitions
Device Information Block
                                                             $DEVDEF
                                                             SDIBDEF
                                                             SDVIDEF
                                                                                                                                    SGETDVI ITMLST item codes
                                                                                                                                    Shared messages
                                                             $SHRDEF
                                                                                                                                    System Service status codes
                                                             $SSDEF
                                                             $STSDEF
                                                                                                                                    Status return
                                                                                                                                    UETP unit block offset definitions
                                                             SUETUNTDEF
                                                                                                                                    UETP
                                                              SUETPDEF
                                                             SXMDEF
                                                                                                                                    XMDRIVER symbols
                                                             SNMADEF
                                                                                                                                : Network management definition
                                    108
                                                EQUATED SYMBOLS:
                                    109
                                                    Facility number definitions:
RMS$_FACILITY = 1
                                    110
00000001
                                    111
                                                     SHR message definitions:
                                                            UETP = UETP$ FACILITY@STS$V FAC_NO; Define the UETP facility code
UETP$_ABENDD = UETP!SHR$_ABENDD; Define the UETP message codes
UETP$_BEGIND = UETP!SHR$_BEGIND
UETP$_ENDEDD = UETP!SHR$_ENDEDD
UETP$_OPENIN = UETP!SHR$_OPENIN
UETP$_TEXT = UETP!SHR$_TEXT
00740000
007410E0
00741038
00741080
00741098
00741130
                                    Internal flag bits...:

TEST_OVERV = 1

SAFE_TO_UPDV = 2

BEGIN_MSGV = 3

MODE_IS_ONEV = 4

FLAG_SHOTDNV = 5
00000001
00000002
00000003
00000004
00000005
                                                                                                                               Set when test is over
Set if it's safe to update UETINIDEV
Set if 'BEGIN' msg has been printed
Set when the MODE is ONE
                                                                                                                                ; Set to indicate device should be ; shutdown if errors occur
                                                          and corresponding masks:

TEST_OVERM = TaTEST_OVERV

SAFE_TO_UPDM = 1aSAFE_TO_UPDV

BEGIN_MSGM = 1aBEGIN_MSGV

MODE_IS_ONEM = 1aMODE_IS_ONEV

FLAG_SHUTDNM = 1aFLAG_SHUTDNV
00000002
00000004
00000008
00000010
00000020
                                                     Miscellany:
                                                            LC_BITM = *X20
REC_SIZE = 40
TEXT_BUFFER = 250
EFN2 = 4
SS_SYNCH_EFN = 3
MAX_PROC_NAME = 15
MAX_DEV_DESIG = 10
00000020
00000028
000000FA
00000004
00000003
                                                                                                                                   Mask to convert lower case to upper UETINIDEV.DAT record size Internal text buffer size EFN used for three minute timer Synch miscellaneous system services
 000000F
                                                                                                                                : Longest possible process name : Longest possible controller name
 A0000000
```

; Number of preallocated message block

RECVPOOL_SIZ = 4

UETDMPF00

00000004

V04-001

ETDMPF00 04-001	Read		P 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Page 5 10-SEP-1984 12:03:55 EUETP.SRCJUETDMPF00.MAR;2
	000	0000 164 SBTTL 00000 165 PSECT	Read-Only Data RODATA, NOEXE, NOWRT, PAGE
3 45 54 53	9 53 00000008 010E0000	0000 166 0000 167 ACNT_NAME: 0000 168 .ASCID	/SYSTEST/ ; Process name on exit
	5 55 00000017'010E00000 30 30 46	000F 170 TEST_NAME: 000F 171 .ASCID	/UETDMPF00/ ; This test name
0 55 53 54	5 55 00000028'010E0000'	002E	/UETSUPDEV/ : How we access UETSUPDEV.DAT
	4 43 00000039'010E00000	003F	/CTRLNAME/ : Logical name of controller
45 44	F 4D 00000049'010E0000	0041 178 0041 179 MODE: 0041 180 .ASCID 004D 181	/MODE/ ; Run mode logical name
	00000000 00000000 00000000 00000000 0000	004D 182 NO_RMS_AST_TABLE 004D 183 0051 184 .LONG 0055 185 .LONG 0059 186 .LONG 005D 187 .LONG 0061 188 NRAT LENGTH =	: List of errors for which RMS\$_BLN :RMS cannot deliver an AST RMS\$_BUSY :even if one has an ERR= arg RMS\$_CDA : Note that we can search table RMS\$_FAB :via MATCHC since <31:16> RMS\$_RAB :pattern can't be in <15:0>
E 49 24 53 5	9 53 00000069 010E0000 54 55 50	006F	/SYS\$INPUT/ :the test can be aborted
	0000000c 000000014 00000000	0072 192 0072 193 INPUT_ITMLST: 0072 194 .WORD	; \$GETDVI arg list for SYS\$INPUT ; We need the equivalence name 0 ; Terminate the list
1 20 42 58	22 21 0000008A 010E0000 20 42 58 32	0090	/!2XB !2XB / ; Device class and type control string
A 20 42 58	22 21 0000009C*010E0000°	0094 200 0094 201 CS3:	/!2XB **/ ; Device class-only control string
5 74 72 6F 2 65 73 75	2 41 000000AB 010E0000 0 61 20 61 69 76 20 64 43 2F 4C 52 54 43 20	00A3 203 00A3 204 CNTRLCMSG: 00A3 205 .ASCID 00B1	\Aborted via a user CTRL/C\
E 6F 63 20 1		00A3 205 .ASCID 00B1 00BD 00C4 206 00C4 207 NO_CTRLNAME: 00C4 208 .ASCID 00DE 00DE 00E4 209	/No controller specified./
	ZE 64 65 69 66 69	00DE 00E4 209	

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UETDMPF00
V04-001
                                         VAX/VMS UETP DEVICE TEST FOR DMP Read-Only Data
       27
72
60
75
54
206721
64E
   74 6F 61 73 49
               61
62
75
54
                                                                                 /Can't test controller !AS, marked as unusable in UETINIDEV.DAT./
           6440E5E
                   653001
                                  732465
                          20
21
69
F
                                      65 65
                                          74 66B20
                                               NOUNIT_SELECTED:
.ASCID /No units selected for testing./
                                                        215
216 ILLEGAL_REC:
217 .ASCID /Illegal record format in file UETINIDEV.DAT!/
                   497204
                      00000159°
6F 63 65
6E 69 20
49 4E 49
               60 66 65
                                                        218
219 PASS_MSG:
220
                                 *010E0000
61 70 20
20 68 74
6F 69 74
2E
                      0000018D 9 73 73 4C 55 21 20 73 6E
               6E
55
69
74
                  45
21
20
61
                                                                        .ASCID /End of pass !UL with !UL iterations at !XD./
                                                                                /Error updating UETINIDEV.DAT./
                                                             INIDEV_UPDERR:
               72
67
44
                  45
6E
2E
           72
20
41
                                               01DD
                                                             THREEMIN:
                                                                                                                 ; 3 minute delta time
                      FFFFFFFF 94B62E00
                                                                        . LONG
                                                                                  -10*1000*1000*180<sub>-</sub>-1
                                                             HALFMIN:
                                                                                                                 ; 30 seconds delta time
                      FFFFFFF EE1E5D00
                                                                        .LONG
                                                                                  -10*1000*1000*30<sub>.</sub>-1
                                                             UNIT_DESC:
                                                                                                                 : Descriptor used to convert unit #
                                  00000005
0000001A
                                                                        .ADDRESS BUFFER+6
                                                             CONT_DESC:
                                                                                                                  Descriptor used to convert controller...
                                                                                 REC_SIZE,0
                                                                                                                 : ...from lowercase to uppercase
                                                                        . ADDRESS BUFFER
                                                             FILE:
                                                                                                                ; Fills in RMS_ERR_STRING
       65 6C 69 66 00000205'010E0000'
                                                                        .ASCID /file/
                                                             RECORD:
                                                                                                                ; Fills in RMS_ERR_STRING
64 72 6F 63 65 72 00000211'010E0000'
                                                                        .ASCID
                                                                                /record/
                                                             RMS_ERR_STRING:
                                                                                                                  Announces an RMS error
                                                                        .ASCID /RMS !AS error in file !AD/
                                                        247
```

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UETI
VO4
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```
TP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.1
UETDMPF00
V04-001
                                                                                                             .ASCII /Controller designation?: /
64 20 72 65 6C 6C 6F 72 74 6E 6F 3A 3F 6E 6F 69 74 61 6E 67 69 73
                                                                                     PMTSIZ = .-PROMPT
251
252 START_TO_MSG:
253 .ASCID /Timeout trying to start !AS./
                                                                                                             PMTSIZ = .-PROMPT
75 6F 65 6D 69 54 00000259 010E0000
20 6F 74 20 67 6E 69 79 72 74 20 74
2E 53 41 21 20 74 72 61 74 73
                                                                                     254
255 RW_TO_MSG:
.ASCID /Timeout while reading or writing !AS./
75 6F 65 6D 69 54 0000027D 010E0000
64 61 65 72 20 65 6C 69 68 77 20 74
69 74 69 72 77 20 72 6F 20 67 6E 69
2E 53 41 21 20 67 6E
                                                                                     258 START_CONT_PRM:
259 .ASCID /Error starting up !AS as a controller./
20 72 6F 72 72 45 000002AA 010E0000
20 70 75 20 67 6E 69 74 72 61 74 73
6E 6F 63 20 61 20 73 61 20 53 41 21
2E 72 65 6C 6C 6F 72 74
                                                                                     260
261 START_TRIB_PRM:
262 .ASCID /Error starting up !AS as a tributary./
20 72 6F 72 72 45 00000208 010E0000
20 70 75 20 67 6E 69 74 72 61 74 73
69 72 74 20 61 20 73 61 20 53 41 21
2E 79 72 61 74 75 62
                                                                                     264 WRITE_PRM:
265 .ASCID /Error writing to !AS./
20 72 6F 72 72 45 00000305 010E00000
21 20 6F 74 20 67 6E 69 74 69 72 77
2F 53 41
                                                                                     266
267 READ_PRM:
268 .ASCID /Error reading from !AS./
                                                                                     269
270 SENSE_PRM:
.ASCID /Error sensing characteristics of !AS./
20 72 6F 72 72 45 00000341 010E00000 72 61 68 63 20 67 6E 69 73 6E 65 73 20 73 63 69 74 73 69 72 65 74 63 61 2E 53 41 21 20 66 6F
                                                                                     273 SET_PRM:
274 .ASCID /Error setting characteristics of !AS./
20 72 6F 72 72 45 0000036E 010E0000
72 61 68 63 20 67 6E 69 74 74 65 73
20 73 63 69 74 73 69 72 65 74 63 61
2E 53 41 21 20 66 6F
                                                                                     275
276 DMF_IOSB_DUMP:
277 .ASCID
                                                                                                                            \1/O status block completion status: !XW, transfer size: !XW,\-
74 73 20 4F 2F 49 00000398'010E0000
63 20 6B 63 6F 6C 62 20 73 75 74 61
74 73 20 6E 6F 69 74 65 6C 70 6D 6F
74 20 2C 57 58 21 20 3A 73 75 74 61
65 7A 69 73 20 72 65 66 73 6F 61 72
```

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-1	
- 1	VOA
	404

UETDMPF00 VAX/VMS UE V04-001 Read-Only	TP DEVICE TEST FOR DMF	H 1 P 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Page 8 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2 (3
2C 57 58 21 20 3A 03D1 65 74 63 61 72 61 68 63 5F 21 2F 21 03D7 42 58 21 20 3A 73 63 69 74 73 69 72 03E3 58 21 20 3A 73 75 74 61 74 73 20 2C 03EF 6D 75 73 20 72 6F 72 72 65 20 2C 42 03FB 2E 42 58 21 20 3A 79 72 61 6D 0407	278	\!/!_characteristics: !XB, status: !XB, error summary: !XB.\
0411 74 73 20 4F 2F 49 00000419'010E00000' 0411 63 20 6B 63 6F 6C 62 20 73 75 74 61 041F 74 73 20 6E 6F 69 74 65 6C 70 6D 6F 042B 74 20 2C 57 58 21 20 3A 73 75 74 61 0437 65 7A 69 73 20 72 65 66 73 6E 61 72 0443	279 280 DMP_1OSB_DUMP: 281 .ASCID	\1/O status block completion status: !XW, transfer size: !XW,\-
2C 57 58 21 20 3A 044F 65 74 63 61 72 61 68 63 5F 21 2F 21 0455 42 58 21 20 3A 73 63 69 74 73 69 72 0461 58 21 20 3A 73 75 74 61 74 73 20 2C 046D 6D 75 73 20 72 6F 72 72 65 20 2C 42 0479	282	\!/!_characteristics: !XB, status: !XB, error summary: !XB,\-
2C 42 58 21 20 3A 79 72 61 6D 0485 75 6E 20 6C 61 74 6F 74 5F 21 2F 21 048F 6F 72 72 65 20 66 6F 20 72 65 62 6D 0498	283	\!/!_total number of errors: !XB.\
04AF 04AF 04AF 72 75 6C 69 61 46 000004B7'010E0000' 04AF 72 6F 66 20 67 6E 69 72 75 64 20 65 04BD 65 74 20 72 6F 72 72 65 20 64 65 63 04C9 63 65 70 78 65 09 0A 0D 2C 73 74 73 04D5		/Failure during forced error tests,/<13><10><9>/expected: "/
72 09 0A 0D 2C 22 000004EF 010E0000 04E7 22 20 3A 64 65 76 69 65 63 65 04F5	287 288 RECEIVED_MSG: 289 .ASCID	/",/<13><10><9>/received: "/
76 69 65 63 65 52 00000507'010E00000' 04FF 65 20 65 67 61 73 73 65 6D 20 64 65 050D 64 20 64 6F 6F 67 20 20 72 6F 72 72 0519 20 20 42 58 21 20 73 69 20 61 74 61 0525 20 73 69 20 61 74 61 64 20 64 61 62 0531 20 42 58 21 053D	290 291 RECV_ERR_MSG: 292 .ASCID	/Received message error, good data is !XB, bad data is !XB /
20 42 58 21 053D 0541 0541 20 72 6F 72 72 45 00000549 010E0000 00 0541 64 6F 6D 20 65 73 6E 65 73 20 6E 69 054F 65 74 78 65 20 2C 74 73 65 74 20 65 055B	293 294 SENSE_ERRMSG: 295 .ASCID	\Error in sense mode test, extended characteristic parameter\-
72 65 74 65 60 057F 68 74 69 77 20 57 58 21 5F 21 2F 21 0584 6E 20 4C 58 21 20 65 75 6C 61 76 20 0590 62 20 64 65 68 63 74 61 60 20 74 6F 059C	296	\!/!_!XW with value !XL not matched by any of those returned.\
6F 68 74 20 66 6F 20 79 6E 61 20 79 05A8 2E 64 65 6E 72 75 74 65 72 20 65 73 05B4 05C0 20 72 6F 72 72 45 000005C8'010E0000' 05CG	297 298 ERRTEST_MSG: 299 .ASCID	/Error in error test /

UETDMPF00 V04-001 VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Page 9 Read-Only Data 10-SEP-1984 12:03:55 EUETP.SRCJUETDMPF00.MAR;2

73 65 74 20 72 6F 72 72 65 20 6E 69 05CE 20 74 05DA

10 (4)

Read/Write Data RWDATA, WRT, NOEXE, PAGE .SBTTL .PSECT

TTCHAN:

. WORD

: Channel associated with ctrl. term.

FLAG: 0000

. WORD

: Miscellaneous flag bits
; (See Equated Symbols for definitions)

; fAO output string descriptor

FAO_BUF: 0000 00FA 00000014°

00000000 0000

0000

0000 00FA 00000014

0000010E

0000 00FA

0000011E*

00000218

00000008

00000246 0000000F

46 50 4D 44 00000228'010E0000'

WORD TEXT BUFFER.0 . ADDRESS BUFFER

BUFFER PTR: - WORD TEXT BUFFER . 0 . ADDRESS BUFFER

; Fake .ASCID buffer for misc. strings : A word for length, a word for desc.

BUFFER:

.BLKB TEXT BUFFER : FAO output and other misc. buffer

0000 OOFA 0000011E'

ALT_FAO_BUF: . WORD TEXT BUFFER.O .ADDRESS ALT_BUFFER

: FAO output string descriptor... ...during ASTs

ALT_BUFFER_PTR:

TEXT BUFFER. 0 . WORD

Fake .ASCID buffer for misc. strings A word for length, a word for desc. : Used during ASTs

.ADDRESS ALT_BUFFER

ALT_BUFFER: .BLKB TEXT_BUFFER : FAO output and other misc. buffer...

: ...during ASTs

: Device name descriptor

DEVDSC:

MAX_DEV_DESIG,0 . WORD . ADDRESS DEV_NAME

0000 000A 00000237

PROCESS_NAME:

: Process name

.ASCID /DMPF/

PROCESS_NAME_FREE = MAX_PROC_NAME -<.-8-PROCESS_NAME> .BLKB PROCESS NAME FREE

DEV_NAME:

Device name buffer

.BLKB MAX_DEV_DESIG+MAX_UNIT_DESIG

346 DIB:

. WORD DIBSK_LENGTH.O

. ADDRESS DIBBUF

0000 0074 0000024E DIBBUF:

DIB\$K_LENGTH .BLKB

000002C2

ERROR_COUNT:

: Cumulative error count at runtime

00000000

. LONG

: Status value on program exit

: Device Information Block

00000000

STATUS:

. LONG

```
UETDMPF00
V04-001
```

VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Page 11 Read/Write Data 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2 (4)

00000000	00000000	05CV 05CV	358 QUAD 359 360 361 INAD 362 363 OUTA 364	_STATUS:	0	; 10 status block for misc sys. svcs.
2000000	0000000	0505	361 INAD	DRESS:	0.0	; \$CRMPSC address storage
00000000	00000000	0202	SAS OUTA	LONG DDRESS:	0.0	
00000000	00000000	02DA	364 364	-LONG	0.0	
	0000	02E5 02E5	366 UNIT 367 368	_NUMBER:	0	; Current dev unit number
	0000	02E4 02E4 02E6	369 DEVN 370 371	AM_LEN: .WORD	0	; Current device name length
	00000000	02E6 02E6	372 ITER	ATION: .LONG	0	; # of times all tests were executed
	00000000	02EA 02EA 02EA	375 PASS 376	.LONG	0	; Pass count
	000002F2	02EE 02EE	379	BLOCK:	4	; Auxiliary \$GETMSG info
	00000000 00000001 00000001	02F2 02F6 02FA 02FE	382 383 384	_DESC: _LONG .ADDRES	O SS_EXIT_HANDLER SS_STATUS	; Exit handler descriptor
	00000000	0302	385 386 387 ARG_ 388 389 390 XD_C	COUNT:	0	; Argument counter used by ERROR_EXIT
	0000	0306 0306 0308 0308 0308	391	HAN: .WORD	0	; DMP/F circuit channel
	0000	0308 0308	392 393 BUF_ 394 395	LEN: .WORD	0	; Length of primary chars
	00000074 00000312	USUA	396 BUF_ 397 398	DESC: .LONG .LONG	DIBSK_LENGTH CHAN_BUF	; Get channnel char buffer descriptor
	00000386	0312 0312 0386	399 400 CHAN 401	_BUF:	DIB\$K_LENGTH	; Channel char buffer
0000000	00000000	0386 0386	401 402 403 P18U 404	F:	0	; P1 Device char buffer
0000000	00000000	038E 038E 038E 0396	407	1BUF:	0	; p1 buufer for trib
	0000000C°	0396	410	F_DESC: .LONG .ADDRES	PZBUF LEN SS PZBUF	; P2 extended char buffer
	0458	039E	412 413 P28U 414	F:	NMA\$C_PCLI_PRO	: P2 extended buffer : Protocol mode

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 10-SEP-1984 12:03:55 [UETP.SRCJUETDMPF00.MAR;2
          00000000
                                                  NMASC_LINPR_POI
                                                                             : DDCMP proint-to-point mode
                                          .LONG
                                                  NMASC_PCLI CON
NMASC_LINCN_LOD
                                                                             : Controller mode
: Loopback mode
         00000001
                                          . WORD
                                          .LONG
          0000000C
                                P2BUF_LEN = .-P2BUF
                                TR_P2BUF_DESC:
                                                                             : P2 extended char buffer for trib
         00000006'
000003B2'
                                                 TR_P2BUF_LEN
                                         . ADDRESS TR_P2BUF
                                TR_P2BUF:
                                                                               P2 extended buffer for trib
         00000001
                                          . WORD
                                                  NMASC_PCCI_TRI
                                                                               tributary address
                                          .LONG
                                                                               Address
          00000006
                                TR_P2BUF_LEN = .-TR_P2BUF
                                 SENSE_P1BUF:
                                                                             : P1 buffer for sense mode test
00000000 00000000
                                                                             : P2 buffer descrip for sense mode test
                                SENSE_P2DESC:
         00000090
                                          .LONG SENSE P2LEN
                                          . ADDRESS SENSE PEBUF
                                 SENSE_P2BUF:
                                                                             ; P2 buffer for sense mude test
                                SENSE_P2LEN = .-SENSE_P2BUF
                                                                             ; 8 guad guad words for dev information
          00000458
                                                                             : P2 buffer length
          00000090
                                 ERRTST_P2DESC:
                                                                             : P2 desc for error test
                                         LONG ERRTST PZLEN .ADDRESS ERRTST_PZBUF
          000000081
          000004601
                                 ERRTST_P2BUF:
                                                                             : P2 buffer for error test
          00000468
                                .BLKQ 1
ERRTST_P2LEN = .-ERRTST_P2BUF
          80000008
                                ERRCOUNT_DESC:
LONG ERRCHT_LEN
                                                                             : Error counter buffer descrip
          00000200'
          00000470
                                          .ADDRESS ERRCNT_BUF
                                ERRCNT_BUF :
                                                                             : Buffer for error counters
          00000670
                                          .BLKQ
          00000200
                                 ERRCHT LEN = .-ERRCHT BUF
                                                                             : Buffer length
                                                                             : QIO IO status block for transmit
                                 XD_IOSB:
          00000678
                                          .BLKQ
                                                                             : QIO Io status block for receive
                                RCV_IOSB:
          00000680
                                          .BLKQ
                                XMIT_BUF:
                                                                             : Transmit buffer
          00000880
                                          -BLKB
                                                  MAX_MSG_LEN
                                 RECV_BUF:
                                                                             : Receive buffer
          00000A80
                                          .BLKB
                                                  MAX_MSG_LEN
```

: Received wrong data

BAD_DATA:

UETDMPF00 V04-001

UETDMPF00 V04-001		VAX/ Read	VMS UE	TP DEVICE Data	TEST FOR D	MP 11/ DMF	16-SEP-1984 10-SEP-1984	01:24:05 12:03:55	VAX/VMS Macro V04-00 CUETP.SRCJUETDMPF00.MAR; 2	Page	13
		00	0A80 0A81	472	.BYTE	0					
		00	0A81 0A81 0A82	474 GOO	DATA:	0		; Data	sent (good)		
			0A82 0A82 0A82 0A82	477 478 479 : H 480 :			UETP unit blo	ock queue.			
			0A82 0A88 0A88 0A88 0A90	482	.ALIGN	QUAD		a Haad	of units block adapting like		
	00000000	00000000	0888 0880	484 485	LIST:	0		; Head	of unit block circular list		
	00000000	00000000	0A90 0A90	484 485 486 NEW 487	NODE:	0		; Newl	y acquired node address		

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 RMS-32 Data Structures 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2
                                      .SBTTL RMS-32 Data Structures .ALIGN LONG
                           SYSIN_FAB:
                                                                                 : Allocate FAB for SYS$INPUT
                                      SFAB-
                                      FNM = <SYS$INPUT>
                           SYSIN_RAB:
                                                                                 ; Allocate RAB for SYS$INPUT
                                      SRAB-
                                      FAB = SYSIN_FAB,-
ROP = PMT,-
                                       PBF = PROMPT -
                                      PSZ = PMTSIZ,-
                                      UBF = DEV_NAME, -
                                      USZ = NAME_LEN
                           INI_FAB:
                                                                                 : Allocate FAB for UETINIDEV
                                      SFAB-
                                      FAC = <GET, PUT, UPD>,-
                                      RAT = CR,-
SHR = <GET, PUT, UPI>,-
FNM = <UETINIDEV.DAT>
                           INI_RAB:
                                                                                 : Allocate RAB for UETINIDEV
                                      SRAB-
                                      FAB = INI FAB,-
RBF = BUFFER,-
                                      UBF = BUFFER .-
                                      USZ = REC_SIZE
                           DDB_RFA:
                                                                                 ; RFA storage for INI_RAB
00000BC6
                                       .BLKB
                                      .ALIGN LONG
                           SUP_FAB:
                                                                                 : Allocate FAB for UETSUPDEV
                                      SFAB-
                                      FAC = GET,-
SHR = <UPI,GET>,-
                                      RAT = CR.-
FOP = UFO,-
                                      FNM = <UETSUPDEV.DAT>
                              Dummy FAB and RAB to copy to the UETP unit blocks
The following FAB and RAB must be contiguous and in this order!
                           DUMMY_FAB:
$FAB
                           DUMMY_RAB:
                                                RSZ = WRITE_SIZE,-
USZ = READ_SIZE
```

```
.SBTTL
.PSECT
                                                                               Main Program
DMPF, EXE, NOWRT, PAGE
                               00000000
                                                                   .DEFAULT DISPLACEMENT, WORD
                            0000
                                                       .ENTRY UETDMPF00, M<>
                                                                                                                     : Entry mask
               09D1'CF
                                                                   MOVAL SSERROR, (FP)
$SETSFM_S ENBFLG = #1
$DCLEXH_S DESBLK = EXIT_DESC
                                                                                                                        Declare exception handler
                                                                                                                        Enable system service failure mode
                                                                                                                       Declare an exit handler
                                                                  SOPEN FAB = SYSIN FAB, -
ERR = RMS ERROR

SCONNECT RAB = SYSIN RAB, -
ERR = RMS ERROR

BBC S^*/DEVSV TRM, -
SYSIN FAB+FAB$L DEV, 10$

STRNLOG_S LOGNAM = CONTROLLER, -
RSLLEN = DEVNAM_LEN, -
RSLBUF = DEVDSC
                                                                                                                     : Open SYS$INPUT
                                                                                                                     : Connect RAB to SYS$INPUT
                              EI
                                                                                                                        BR if SYS$INPUT is NOT a terminal
          1E OADB'CF
                                                 560
                                                                                                                        Allow terminal user to specify...
                                                 561
562
563
                                                                                                                       ...a logial name...
...for the controller to test
Was a controller specified?
BR if it was - go process it
                       50
2E
                                                                   CMPL
                                                                               RO.#SS$ NORMAL
PROC_CONT_NAME
               01
                                     005B
                                                564
565
                                                                   BEQL
                                     005D
                                                      105:
                                                                              RAB = SYSIN_RAB,-
ERR = RMS_ERROR
SYSIN_RAB*RAB$W_RSZ,-
DEVNAM_LEN
PROC_CONT_NAME
#SS$_BADPARAM,STATUS
NO_CTRLNAME
                                                 566
567
                                                                   SGET
                                                                                                                        Read SYS$INPUT...
                                                                                                                        ... for the controller name
                                                                   MOVW
                                                                                                                       Save the name length
               02E4 'CF
                               12
D0
DF
                                                                   BNEQ
                                                                                                                        BR if we got something Save an exit status if not
       02C6'CF
                                                                   MOVL
                                                                                                                        Prepare for message...
               00C4 ° CF
                                                                   PUSHAL
                               DD
                                                                   PUSHL
                                                                                                                        ...arg count
                               DD
                                                                               #UETPS_TEXT!STS$K_ERROR
         00741132 BF
                                                                   PUSHL
                                                                                                                        ...signal name
                       03
                                                                   PUSHL
                                                                                                                        ...arg count
                    OAF 6
                                                                   BRW
                                                                                                                        ...go tell of bad setup
                                                                               ERROR_EXIT
                                                      PROC_CONT_NAME:
                              3C
DF
DF
                                                                   MOVZWL
0218'CF
                                                                               DEVNAM_LEN, DEVDSC
                                                                                                                        Set the device name length
                                                                                                                       Make sure ...
                                                                   PUSHAL
                                                                               DEVDSC
                                                                   PUSHAL
                                                                               DEVDSC
                                                                                                                        ... that the specified controller...
                              FB
C1
A0
 00000000 GF
                                                                   CALLS
ADDL3
                                                                                                                        ...is all uppercase for later comaparison 
Estimate the eventual...
                                                                               #2,G^STR$UPCASE
                                                                               #1, DEVDSC, R2
R2, PROCESS NAME
PROCESS NAME+8-
+MAX PROC NAME-
-PROCESS NAME FREE, R0
#PROCESS NAME FREE, -
                       01
                                                                                                                        ...process name length (incl. "_")
Locate first available byte...
                                                                   ADDWZ
                               DE
                                                                   MOVAL
                                     00AD
                                                                                                                       ...in process name handle...
for device name
Will the device name fit...
               022C 'CF
                               C3
                                                                   SUBL 3
                                                                                                                       BR if it will
                                                                                R2 R1
                51
                                                590
591
                               15
C2
B0
                                                                   BLEQ
                                                                               R1,R0 ; Overwrite handle otherwise...
#MAX_PROC_NAME,PROCESS_NAME ; ...and define the maximum length
                                                                   SUBL 2
       0220'CF
                                                                   MOVW
                                                      105:
                                                 594
595
596
597
598
599
                               90
28
D4
DF
                                                                               #^A/ /.(RO)+
DEVDSC.DEV_NAME.(RO)
               5F 8F
0218'CF
                                                                   MOVB
                                                                                                                        Separate handle from device name
                                                                                                                        Concatenate handle with device name
Set the time stamp flag
0237'CF
                                                                   MOVC3
                                                                               -(SP)
                                                                   CLRL
                                     OOCD
                                                                   PUSHAL
                000F ° CF
                                                                                                                        Set the test name
                               DD
                                      00D1
                                                                   PUSHL
                                                                                                                        Push the argument count
         00741039 8F
                                                                               #UETP$ BEGIND!STS$K_SUCCESS; Set the message code
                                                                   PUSHL
```

	VAX	/VMS UE n Progr	TP DEVICE	TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Page 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2
00000000 GF 04 0002 CF 08	FB A8	00D9 00E0 00E5	600 601 602	CALLS #4,G^LIB\$SIGNAL ; Print the startup message BISW2 #BEGIN_MSGM,FLAG ; Set flag so we don't print it again
66 OAD8 CF	E1	00F0 00F2 00F6 00F6	600 601 602 603 604 605 606 607 608	BBC S^#DEV\$V TRM, - ; BR if SYS\$INPUT is NOT a terminal SYSIN FAB+FAB\$L DEV, 20\$ \$GETDVI_S DEVNAM = SYS\$INPUT, - ; Get the name of EFN = #SS SYNCH EFN, - ; device which may abort test ITMLST = INPUT ITMEST, - iOSB = QUAD_STATUS BLBC QUAD_STATUS, 20\$; Avoid CTRL/C handler if any error \$ASSIGN_S DEVNAM = BUFFER_PTR, - ; Set up for CTRL/C AST handler
45 02CA°CF	E9	0112 0117 0117 0128 0128	610 611 612 613 614 615	IOSB = QUAD STATUS BLBC QUAD STATUS,20\$; Avoid (TRL/C handler if any error \$ASSIGN_S DEVNAM = BUFFER_PTR,- ; Set up for (TRL/C AST handler CHAN = TTCHAN \$QIOW_S CHAN = TTCHAN - ; Enable CTRL/C AST's FUNC = #IO\$ SETMODE!IO\$M_CTRLCAST,- P1 = CCASTHAND
0220°CF 01 0074832B 8F 00000000°GF 03	DF DD DD FB	0149 0149 0146 0146 0155	616 617 618 619 620 205:	PUSHAL PROCESS_NAME :and tell the user PUSHL #1 PUSHL #UETP\$ ABORTC!STS\$K_SUCCESS :how to abort gracefully CALLS #3,G^LIB\$SIGNAL

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05
V04-001
                                                                              From UETINIDEV.DAT and UETSUPDEV.DAT, get information which gives controller and unit configuration and lets us know if the setup to run this test was
                                                                              done correctly.
                                                                                       SOPEN FAB = INI_FAB,-
ERR = RMS_ERROR
SCONNECT RAB = INI_RAB,-
ERR = RMS_ERROR
SMGBLSC_S INADR = INADDRESS,-
                                                                                                                                          : Open file "UETINIDEV.DAT"
                                                          0168
                                                                                                                                          : Connect the RAB and FAB
                                                          016B
017A
                                                                                                                                        ; Connect to UETSUPDEV global section
                                                                                                       RETADR = OUTADDRESS .-
                                                                                                       GSDNAM = SUPDEY GBLSEC .- FLAGS = #SEC$M_EXPREG
                                                                                                    RO, #SSS_NOSUCHSEC
                     00000978 8F
                                                                                                                                         : Was the section already there?
: BR if it was...
: ...else open 'UETSUPDEV.DAT'
                                                                                       CMPL
                                                          0199
                                                          01A0
                                                                                       BNEQ
                                                                                                    30$
                                                                                       SOPEN FAB = SUP_FAB,-
ERR = RMS_ERROR

$CRMPSC_S CHAN = SUP_FAB+FAB$L_STV,-; Create the global section
INADR = INADDRESS,-
                                                          01A2
                                                          01B1
                                                          01B1
                                                          01B1
                                                                                                    RETADR = OUTADDRESS,-
                                                                                                   GSDNAM = SUPDEV GBLSEC -
FLAGS = #SEC$M_EXPREG!SEC$M_GBL
                                                          01B1
                                                          01B1
                                                          01D9
                                                                          30$:
                    O2DE 'CF
                                   02DA CF
                                                   C3
                                                          0109
                                                                                       SUBL3
                                                                                                   OUTADDRESS, OUTADDRESS+4, R6; Compute global section length
                                                          01E1
                                                          01E1
                                                                          FIND_IT:
                                                                                                   RAB = INI_RAB,-
ERR = RMS_ERROR
                                                          01E1
                                                                                       SGET
                                                                                                                                          : Get the first record
                                                          01E1
                                                                                                   CONT_DESC
CONT_DESC
#2,G*STR$UPCASE
                                                         01F0
                                                                                       PUSHAL
                                                                                                                                             Make sure...
                                   01F5'CF
                                                   DF
                                                         01F4
                                                                                       PUSHAL
                                                                                                                                            ... that the controller name...
                     00000000 GF
                                                   FB
91
                                                                                                                                            ...is all uppercase letters
Is this a DDB?
Go on if not
                                                         01F8
                                                                                       CALLS
                       0014°CF
                                                                                                    #*A/D/, BUFFER
                                                         01FF
                                                                                       CMPB
                                                   13
                                                         0205
                                                                                       BEQL
                                                                                                    10$
                                                                                                   M^A/E/, BUFFER
FIND IT
DEVDSC
                       0014 CF
                                      45
                                                         0207
                                                                                       CMPB
                                                                                                                                            Is this the end of the file?
                                           8F
                                                                                                                                            Continue on if not
                                                         020D
                                                                                       BNEQ
                                   0218'CF
0220'CF
                                                   DF
                                                         020F
                                                                                       PUSHAL
                                                                                                                                            Push device not supported message
                                                   DF
                                                                                                   PROCESS_NAME
                                                                                                                                            Parameters on the stack
                                                                                       PUSHAL
                                                   DD
                                                                                       PUSHL
                                                                                                   #UETPS DENOSU
#STSSK ERROR -
#STSSV SEVERITY -
#STSSS SEVERITY (SP)
(SP) , STATUS
                                                   DD
FO
                             00748333
                                                                    660
661
662
663
664
665
666
667
668
670
671
                                                                                       PUSHL
                                        02
00
03
6E
04
0953
                                                                                       INSV
                                                                                                                                         : Set the severity code...
                           02C6'CF
                                                   DO
                                                                                       HOVL
                                                                                                                                         : ...and save it as the exit status
                                                   DD
31
                                                                                       PUSHL
                                                         0228
                                                                                       BRW
                                                                                                    ERROR_EXIT
                                                                                                                                         : Exit in error
                                                                          105:
                                                                                                   DEVNAM LEN, BUFFER+6, DEV_NAME ; Is this the right controll FIND IT ; BR if not #6, INI_RAB+RAB$W_RFA, DDB_RFA; Save the Record File Address #^A/T/BUFFER+4 ; Can we test this controller? FOUND IT ; BR if we can... CTRSTR = DEAD_CTRLNAME, - ; ... and yell at user if we can't OUTLEN = BUFFER_PTR, - OUTBUF = FAO_BUF, - P1 = #DEVDSC
    0237'CF
                                                                                       CMPC
                                                                                                                                                     : Is this the right controller?
                                                                                       BNEQ
            08C0 CF
                           0B8C 'CF
                                                                                       MOVC3
                                      54
                       0018'CF
                                                                                       CMPB
                                                                                       BEQL
                                                                                       SFAO_S
                                                                                                              = #DEVDSC
                           02C6'CF
                                                                                                    #SS$_BADPARAM,STATUS
                                                                                       MOVL
                                                                                                                                         ; Set return status
                                   000C'CF
                                                                                       PUSHAL
                                                                                                   BUFFER_PTR
```

UETDMPFOO

O2DA'DF

O2DA'DF

DD DD 31 PUSHL 0908 BRW ERROR_EXIT We can't test what we can't test FOUND_IT: RAB = INI_RAB,-ERR = RMS_ERROR CONT_DESC CONT_DESC #2.G*STR\$UPCASE SGET : Get a record Make sure ... DF FB 91 13 91 13 PUSHAL ...that this line... 00000000 GF CALLS ...is all uppercase letters Is this a UCB? BR if it is 0014 CF CMPB BEQL 30\$ 0014 CF 8F CMPB #^A/D/_BUFFER Is this a DDB? BR if yes BEQL 20\$ 0014°CF 45 CMPB Is this the end? BR if yes 8F W^A/E/,BUFFER BEQL 105: 0151 'CF PUSHAL ILLEGAL_REC Then this is an error in the record DD PUSHL Push the error message 00741132 8F DD PUSHL #UETP\$_TEXT!STS\$K_ERROR Push the signal name Push the temp arg count 700 PUSHL 02BD 0801 ERROR_EXIT BRW Finish for good 702 703 205: 31 0123 BRW ALL_SET : found DDB or END 704 305: 91 12 DD 0018 CF 54 8F 705 CMPB #^A/T/,BUFFER+4
FOUND_IT : Is the unit testable? : BR if not 706 707 BNEQ 01 PUSHL flag to ignore blanks when converting DD 708 PUSHL Set byte size of results UNIT_NUMBER
UNIT_DESC
#4,G*OTS\$CVT_TI_L
R0,10\$
#^A/ /,#MAX_UNIT_DESIG,-; find out where unit number really is DF 709 PUSHAL DF O1ED'CF PUSHAL FB E9 38 00000000 GF CALLS CE BLBC SKPC 001A' CF 50 50 50 50 D7 38 D6 A1 30 28 DECL Units must all be at least one digit Skip leading zeroes on the unit Compensate for DECL above Calculate device unit string length SKPC 50 #^A/0/,R0,(R1) INCL ADDU3
RO, DEVNAM LEN, DEVDSC
MOVZWL DEVNAM LER, R2
MOVC3
RO, (R1), DEV NAME (R2)
SGETDEV_S DEVNAM = DEVDSC.PRIBUF = DIB 0218'CF Offset to unit number in DEVDSC 0237 62 Append unit number to device ; Get the device characteristics DIBBUF+DIB\$B_DEVCLASS.R7; Save the device class DIBBUF+DIB\$B_DEVTYPE.R8; Save the device type CTRSTR = CS1.-0252°CF 0253°CF MOVZBL SFAO_S OUTBUF = FAO BUF .-= R7,= P2 = R8; Make it into a string
#6.BUFFER,R6.aOUTADDRESS; find the device class and type
40\$
CTRSTR = CS3.- ; Try for full class support 39 13 0014'CF MATCHC BEQL SFAO_S CTRSTR = CS3.-OUTBUF = FAO_BUF,-#6,BUFFER,R6,@OUTADDRESS; Find the device class only 50\$; BR if not found 0014°CF MATCHC BNEQ

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VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Main Program 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2 736 40\$: 737 738 739 740 50\$: 741 742 743 744 745 746 747 748 749 750 TEST_NAME_R5
R5 (R3) , TEST_NAME+8
60\$ Get the test name length Are we the right test? BR if yes 0017'CF MOVZBL CMPC3 BEQL DF DD DD FO DEVDSC PROCESS_NAME PUSHAL PUSHAL Push device not supported message Parameters on the stack 00748333 8F 02 00 00 6E 03 02 04 PUSHL Push the argument count WUETPS_DENOSU
#STSSK_ERROR,#STSSV_SEVERITY,#STSSS_SEVERITY,(SP)
(SP),STATUS PUSHL ; Set the severity code...
: ...and save it as the exit status
; Push the partial arg count...
: ...and split this scene 02C6 CF MOVL PUSHL BRW #4 ERROR_EXIT

UETDMPF00 V04-001 VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Main Program 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2

The following code dynamically allocates enough memory for a unit block, a device dependent parameter area and I/O buffers. The unit block is inserted into the queue header UNIT_LIST. It then initializes the unit block. A comment indicates where the device dependent parameters should be initialized. The unit block format is as follows: 7534 7554 7556 7557 7560 7763 7768 7768 7768 7770 7771 UETUNTSL_FLINK UETUNT\$L_BLINK UETUNT\$8_TYPE UETUNT\$W_SIZE contains DEVDEP_SIZE + UETUNT\$C_INDSIZ UETUNT\$B_FLAGS UETUNT\$W_CHAN UETUNT\$W_FUNC +---- UETUNT\$C_SIZE UETUNT\$L_ITER UETUNT\$T_FILSPC UETUNTSK_FAB /\/\/\/\/\/ FAB\$C_BLN_bytes !/\/\/\/\/\/\/ UETUNT\$K_RAB \/\/\/\/\/\/\/\ RAB\$C BLN bytes \/\/\7\/\/\/\\ UETUNT\$K_DEVDEP \/\/\/\/\! user defined DEVDEP_SIZE \/\/\/\/\/\! READ/WRITE buffers \/\/\/\/\! user defined \/\/\/\/ WRITE_SIZE and READ_SIZE

UETI VO4

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Page

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VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 Main Program 10-SEP-1984 12:03:55 VAX/VMS Macro V04-00 EUETP.SRCJUETDMPF00.MAR; 2 Page 808 60\$: 809 810 ; Get a new node of demand zero memory 0A88'CF 5D DO 90 BO Put the new node in the unit list 09 09 A6 0218 CF 0218 CF 15 A6 0094 8F 0018 CF 0110 C6 0160 C6 3C A8 57 14 A6 34 A7 15 A6 2C A7 90 28 14 A6 021C'DF 28 0110 C6 57 58 DE DE DO 90 Set the FAB address in the RAB DE Set the device dependent parameters in here FE93 31 03E3 BRW FOUND_IT : Do the next UCB

UETDMPF00 V04-001 VAX/VMS UETP DEVICE TEST FOR DMP 11/DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Page Main Program 10-SEP-1984 12:03:55 EUETP.SRCJUETDMPF00.MAR;2

UETI VO4-

Arrive here when we have the device configuration. In normal or loop forever mode, set a timer far enough in the future such that we can do a reasonable set of tests before the timer expires, but if our device gets hung, the program won't waste too much time before noticing. Let one-shot mode be a special case. ALL_SET: **DA88'CF** TSTL UNIT_LIST Anything to test? BR if yes D5 12 DF DD DD DD DD DD BNEQ 0128 CF Else set up the error message...
...argument count... NOUNIT_SELECTED PUSHAL PUSHL 00741132 8F PUSHL #UETP\$_TEXT!STS\$K_ERROR ...signal name... 846 847 848 849 850 ...and parameter count Set return status PUSHL #SS\$ BADPARAM, STATUS ERROR_EXIT 02C6'CF MOVL BRW : ...and give up, complaining 105: 0002 CF 04 BISW2 #SAFE_TO_UPDM,FLAG ; OK safe to update UETINIDEV.DAT now

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Test the DMP/DMF 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2
UETDMPF00
V04-001
                                                                                                 .SBTTL Test the DMP/DMF
                                                                                  START_TEST:
                                                                                                $ASSIGN_S - DEVNAM = DEVDSC,-
                                                                                                                                                       ; Assign channel to the device
                                                                                                              CHAN = XD_CHAN
                                                                                                              RO,10$
RO,STATUS
STATUS
STATUS
                              02C6'CF 50
                                                                                                                                                        ; BR if no failure ; Save the failure status
                                                         BLBS
                                                                                                 MOVL
                                                                                                 PUSHL
                                                                                                                                                        : Push the error code ...
                                                                                                 PUSHL
                                                                                                              DEVDSC
TEST_NAME
...and the device designation...
#3
#UETP$_DEUNUS!STS$K_ERROR
...and the arg count...
#6
...and the signal name...
#6
...and the total argument count...
ERROR_EXIT
...and bail out completely
                                                                                                 PUSHAL
                                                                                                 PUSHAL
                                                                                                 PUSHL
                                0074819A
                                                                                                 PUSHL
                                                06
                                                                                                 PUSHL
                                            0744
                                                                                                 BRW
                                                                            871 105:
                                                                                     Set up P1 device char buffer, P2 buffer is set up in Read/write section
                                                                                   RESTART:
                                       0388 ° CF
0200 8F
63 02
                                                                                                              P1BUF+2,R3
#MAX MSG LEN,(R3)+
#XMSM_CHR_LOOPB,(R3)
                                                         DE
80
90
                                                                                                 MOVAL
                                                                                                                                                                      ; Address of device char for pl
                                                                                                                                                                     : Maximum message length
: Set loop back mode in char
                                                                                                 MOVW
                                                                                                 MOVB
                                                                                                                                                                     ; Set up half minute timer ; to prevent hung
                                                                                                 SSETIMR S -
                                                                                                              DAYTIM = HALFMIN, -
ASTADR = TIME ERR OUT, -
REQIDT = #START_TO_MSG
                                                                                  START_CONT:
                                                                                                SQIOW_S
                                                                                                                                                      : Start the controller
                                                                                                              CHAN = XD CHAN, -
FUNC = #10$ SETMODE!IO$M_CTRL!IO$M_STARTUP, -
IO$B = XD_IO$B, -
ASTADR = CHK_QIO_AST, -
ASTPRM = #START_CONT_PRM, -
                                                                                                              P1 = P1BUF, -
P2 = #P2BUF DESC, -
P3 = #RECVPOOL_SIZ
                                                                                   START_TRI:
                                                                                                 SQIOW S
                                                                                                                                                        ; Start the tributary
                                                                                                             CHAN = XD CHAN, -
FUNC = #IO$ SETMODE!IO$M_STARTUP, -
IOSB = XD IOSB, -
ASTADR = CHK QIO AST, -
ASTPRM = #START_TRIB_PRM, -
                                                                            898
899
900
901
902
903
904
906
907
908
                                                                                                              P1 = TR P18UF -
P2 = #TR P28UF DESC -
P3 = #RECVPOOL_SIZ
                                                                                                                                                      : Common receive pool = 4 buffer
```

BISMS

#FLAG_SHUTDNM,FLAG

; Set flag to say shut down the ; device if errors occur

0002 °CF

20

84

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Test the DMP/DMF 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF0G.MAR;2
UETDMPF00
V04-001
                                                                                                                                                                    Page
                                                                           $CANTIM_S REGIDT = #START_TO_MSG ; Cancel hung timer
                                                 04D7
                                                                          STRNLOG_S LOGNAM = MODE, -
RSLLEN = BUFFER_PTR, -
                                                                                                                     ; Get the run mode
                                                                                        RSLBUF = FAO_BUF
                                  F 8F
0D
02
10
                   0014'CF
                                                                                     #LC_BITM, BUFFER #^A70/, BUFFER
                                                                                                                        Convert to upper case
                                                                                                                        Is this a one shot? BR if not
                                                                           CMPB
                                                                           BNEQ
                                                                                     10$
                                                                                     #TEST_OVERM, FLAG
#MODE_IS_ONEM, FLAG
LOOPBACK_TEST
                                                                                                                        End after one iteration
Set mode is 'ONE' flag
Skip the 3 min timer, mode is 'one'
                                                                           BISW2
                                                           920
921 10$:
                                                                           BRW
                                                                                                                       Not one shot
Set 3 minutes timer for xmit/recv
The test will do xmit/recv for about
                                                                           SSETIMR_S DAYTIM = THREEMIN,-
                                                                                        ASTADR = TIME_SUC_OUT
                                                                                                                        3 minutes
                                                                  Loopback test transmit and receive random data with different message length
                                                                LOOPBACK TEST:
                                           9A
9A
D0
                                                                          MOVZBL #^XAA,R2
MOVZBL #^X2E,R3
                                                                           MOVZBL
                                 AA 8F
                                                                                                                        Random number
                         00000200 8F
                                                                                                                        Random number 2
                                                                           MOVL
                                                                                     #MAX_MSG_LEN,R7
                                                                                                                        Maximum message length
                                                                SET_XMIT_BUF:
                                                                                                                        Set up transmit buffer
Transmit buffer address
                                                                                     XMIT_BUF,R6
R7,R4
                              0680°CF
54 57
                                           DE
                                                                           MOVAL
                                                                           MOVL
                                                                                                                        Message length in bytes
                                                               105:
                                           00
90
f5
                                                                          ADDL2 R3,R2
MOVB R2,(R6)+
SOBGTR R4,10$
                                                                                                                        Random number as data
                                                                                                                        Fill in the transmit buffer
                                                                                                                        Branch if more bytes to be filled
                                                                          $SETIMR_S -
                                                                                                                     ; Set half minute timer to prevent hung
                                                                                     DAYTIM = HALFMIN,-
                                                                                     ASTADR = TIME_ERR_OUT, -
REQIDT = #RW_TO_MSG
                                     10
                                           DO
                                                                           MOVL
                                                                                     #LIMIT_R8
                                                                                                                     : Loop 16 times for each msg length
                                                                :TIMX
                                                                          $Q10_S -
                                                                                                                      : Transmit data message
                                                                                     EFN = #XMIT EFN.-
                                                                                                                        Event flag
                                                                                     CHAN = XD_CRAN,-
                                                                                                                        Channel
                                                                                     FUNC = #10$ WRITEVBLK .-
                                                                                                                        Transmit
                                                                                     IOSB = XD_IOSB,-
ASTADR = CHK_QIO_AST,-
                                                                                                                        IOSB
                                                                                                                        Completion ast routine
                                                                                     ASTPRM = #WRITE_PRM,-
                                                                                                                        Ast parameter
                                                                                     P1 = XMIT_BUF,-
                                                                                                                        Addr of transmit buffer
                                                                                     P2 = R7
                                                                                                                        message :ength in bytes
                                                                RECV:
                                                                          SQIOW_S -
                                                                                                                        Read data message
                                                                                     EFN = #RECV EFN,-
CHAN = XD_CHAN,-
                                                                                                                        Event flag
                                                                                                                        Channel
                                                                                     FUNC = #10$ READVBLK,-
10SB = RCV_TOSB,-
ASTADR = RECV_AST,-
ASTPRM = R7,-
P1 = RECV_BUF,-
                                                                                                                        Receive message
                                                                                                                        Completion ast to check data received
```

Ast parameter = message length

Receive buffer

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 10-SEP-1984 12:03:55
                                                                                                           VAX/VMS Macro V04-00
LUETP.SRCJUETDMPF00.MAR; 2
                                                                                                                                                  Page
                                                                  P2 = R7
                                                                                                  ; Message length in bytes
           02E6'CF
                                                       INCL
                                                                  ITERATION
                                                                                                   : Increment iteration count
                                                       SWAITFR_S EFN = #XMIT_EFN
                                                                                                   : Wait until transmit done
             9E 58
                       F5
                                                       SOBGTR R8.XMIT
                                                                                                   : Loop for 16 times
                                                       SCANTIM_S - REQIDT = #RW_TO_MSG
                                                                                                  : Cancel hung timer
                                                                 #TEST_OVERV,FLAG,SENSE_TEST; Is the test over? R7,10$; Decrement message length.
09 0002'CF
             03 57
                                                       SOBGTR
                                                                                                     Decrement message length by one and
                                                                                                     try again
                                                                  LOOPBACK_TEST
SET_XMIT_BUF
              FF4A
FF55
                                                                                                     Re-try from beginning
                                                       PRW
                                                                                                    Set new data in tranmit buffer
                                            105:
                                            SENSE_TEST:
                                                       SOIOW_S
                                                                                                   : Read device (trib.) charracteristic
                                                                  CHAN = XD CHAN,-

FUNC = #10$ SENSEMODE,-

10SB = XD 10SB,-

P1 = SENSE P1BUF,-

P2 = #SENSE_P2DESC
                                       990
991
992
993
                                                                 CTRSTR = SENSE PRM, -
OUTLEN = ALT_BOFFER PTR, -
OUTBUF = ALT_FAO_BUF, -
                                                       SFAO_S
                                       994
995
                                                                           = #DEVDSC
                                                                  ALT BUFFER PTR
           0116'CF
                                                       PUSHAL
                                       996
997
                        FB
                                                       CALLS
                                                                  #1, CHECK_IOSB
                                                                                                   : Check status
                                      998
999
1000
                        3C
DE
DO
                                                                                                    Number of bytes returned for p2 buff
Address of P2 buff
P2 length
                                                       MOVZWL
                                                                  XD_IOSB+2,R4
TR_P2BUF,R5
    54
                                                       MOVAL
                                                                  #TR_P2BUF_LEN,R7
                                                       MOVL
                                      1001 108:
                                                                  SENSE_P2BUF,R6
#6,(R5),R4,(R6)
30$
                                                                                                     Address of P2 buff returned
                        DE 39 12 DE C2 12 31
                                      1002
                                                       MOVAL
                                                                                                     Check the parameters returned Br if not match
                                      1003
                                                       MATCHC
                                       1004
                                                       BNEQ
                 AS
06
EB
             06
                                                                  6(R5),R5
                                       005
                                                                                                     Next parameter
                                                        MOVAL
                                                       SUBL 2
                                                                  #6,R7
                                                                                                     Index
                                       007
                                                                  10$
                                                                                                     Br if more parameters to check
                                                       BNEQ
                                      1008
               001F
                                                       BRW
                                                                  ERROR_TEST
                                                                                                     Otherwise go to test error case
                                            305:
                                                                  CTRSTR = SENSE ERRMSG,-
OUTLEN = BUFFER PTR,-
OUTBUF = FAO BUF,-
                                                       SFAO_S
                                                                  P1
P2
                                                                           = (R5)
           000C'CF
0235
                                                       PUSHAL
                                                                                                     Error message
                        DF
31
                                                                                                  ; failure exit
                                                                  FAIL_OUT
                                            ERROR_TEST:
                                                       $SETSFM_S ENBFLG = #0
                                                                                                  ; Turn off system service mode
                                               Read data with IOSM_NOW specified but no data available
```

UETDMPF00

V04-001

```
UETDMPF00
V04-001
```

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Test the DMP/DMF 10-SEP-1984 12:03:55 [UETP.SRCJUETDMPF00.MAR;2
                                                                                                                                                                                                  $Q10W_$ -
                                                                                                                                                                                                                                                                                                                                                 ; Read data message
                                                                                                                                                                                                                                     CHAN = XD CHAN, -

FUNC = #10$ READVBLK!IO$M_NOW, -

IOSB = XD_IOSB, -

P1 = RECV_BUF, -

P2 = #128
                                                                                                            00000870 8F
58 0670 CF
57 58
38
                                                                                                                                                                                                                                     #SS$_ENDOFFILE,R7
XD_IOSB,R8
R8,R7
                                                                                         00
30
81
                                                                                                                                                                                                  MOVZWL
                                                                                                                                                                                                   CMPW
                                                                                                                                                                                                                                                                                                                                                 : Correct error code? : Br if not
                                                                                                                                                                                                                                      ERRTST_ERR
                                                                                                                                                                                                   BNEQ
                                                                                                                                                                       Buffer not enough to hold all information from IO$_SENSEMODE
                                                                                                                                                                                                  SQIOW_S -
                                                                                                                                                                                                                                                                                                                                                  ; Read device (trib. ) charracteristic
                                                                                                                                                                                                                                     CHAN = XD CHAN,-

FUNC = #10$ SENSEMODE,-

IOSB = XD IOSB,-

P1 = SENSE P1BUF,-

P2 = #ERRTST_P2DESC
                          00000601 8F
58 0670 CF
57 58
03
                                                                                                                                                                                                                                     #SS$_BUFFEROVF,R7
XD_IOSB,R8
R8,R7
                                                                                          DO
3C
B1
12
31
                                                                                                                                                                                                  MOVL
                                                                                                                                                                                                   MOVZWL
                                                                                                                                                                                                                                                                                                                                                 : Error code = buffer overflow?
: Error if not
: Br to read and clear error count
                                                                                                                                                                                                   CMPW
                                                                                                                                                                                                                                      ERRIST ERR
READ_ERRCOUNT
                                                                                                                                                                                                   BNEQ
                                                           0099
                                                                                                                                                                                                   BRW
                                                                                                                                                            ERRTST_ERR:
                                                                                                                                                                                             ERR:

MOVC3

COMP_STATUS_MSG+8,BUFFER

SUBW3

COMP_STATUS_MSG+8,BUFFER

SUBW3

MTEXT_BUFFER,R9

MOVZWL

R9,BUFFER_PTR

MOVL

R3,BUFFER_PTR+4

SGETMSG_S_MSGID = R7,-

MSGLEN = BUFFER_PTR,-

BUFADR = BUFFER_PTR

ADDL2

BUFFER_PTR,BUFFER_PTR+4

SUBW2

BUFFER_PTR,R9

MOVC3

RECEIVED_MSG,-

RECEIVED_MSG+8,-

BUFFER_PTR+4
                                                                                                             06DF
                                             04AF 'CF
04B7 'CF
                                                                                           28
                                                                                                                                                                                                                                                                                                                                                   : We need an error message...
0014'CF
                                           04AF CF
00FA 8F
CF 59
CF 53
                                                                                          A3
                                                                                                                                                                                                                                                                                                                                                  : ...to compare...
                                                                                                             06ED
06F1
06F6
06FB
06FB
06FB
                      000C'CF
0010'CF
                                                                                         3C
D0
                                                                                                                                        1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
                                                                                                                                                                                                                                                                                                                                                   : ...the error we expected...
0010°CF
                                                                                         C0
A2
28
                                                                                                            0717
0710
                    04EF'CF
0010'DF
0010'CF 53
59 04E7'CF
000C'CF 59
                                                                                                                                                                                                MOVL R3. BUFFER PTR+4
SUBW2 RECEIVED MSG,R9
MOVZWL R9. BUFFER PTR

SGETMSG_S MSGID = R8,-
MSGLEN = BUFFER PTR,-
BUFADR = BUFFER PTR

SUBW2

RECEIVED MSG+8,-
BUFFER PTR+4

SUBW2

RECEIVED MSG-8

                                                                                          D0
A2
30
                                                                                                             0735
0735
0735
074A
074F
0755
0758
                                                                                                                                         1071
                                                                                                                                                                                                                                                                                                                                                  ; ... with the one we received
                                                                                                                                        1072
1073
1074
1075
1076
1077
1078
1079
                                             000C°CF
8F 59
59 59
2E22 8F
59 02
0014°CF
                                                                                                                                                                                                   SUBW2
                                                                                                                                                                                                                                      BUFFER PTR, R9
R9, #TEXT_BUFFER, R9
                      59
00FA
                                                                                          A2
A3
B0
A1
                                                                                                                                                                                                                                     R9.R9
#^A/"./.BUFFER(R9)
#2.R9.BUFFER_PTR+4
                                                                                                                                                                                                   MOVZUL
 0014'09
                                                                                                                                                                                                   MOVE
000C'CF
0010'CF
                                                                                                                                                                                                   ADDW3
                                                                                                                                                                                                   MOVAL
```

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Test the DMP/DMF 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2
UETDMPF00
V04-001
                                                                                         BUFFER_PTR
R8.STATUS
FAIL_OUT
                                              DF
DO
31
                                                                                                                           ; Error message
; Save our actual error as exit status
; Failure exit
                                                                              PUSHAL
                         02C6'CF
                                                                              MOVL
                                                                   READ_ERRCOUNT:
                                                                              SSETSFM_S ENBFLG = #1
                                                                                                                           : Turn on system service mode
                                                                              SQIOW_S -
                                                                                                                           ; Read and clear the error counters
                                                                                         CHAN = XD_CHAN,-
FUNC = #IOS_SENSEMODE!IOSM_RD_COUNT!IOSM_CLR_COUNT,-
IOSB = XD_IOSB,-
P2 = #ERRCOUNT_DESC
                                                                                        CTRSTR = SENSE PRM, -
OUTLEN = ALT_BOFFER_PTR, -
OUTBUF = ALT_FAO_BUF, -
P1 = #DEVDSC
                                                                              SFAO_S
                                                                                         ALT BUFFER PTR
                                0116'CF
CF 01
                                                                              PUSHAL
                         08A5 CF
                                              FB
                                                                              CALLS
                                                                                                                           : Check status
                                                            1099
                                                            1100
                                                                  CLEAN_EXIT:
                                                            1101
                                                            1102
                         0002'CF
                                       20
                                              AA
                                                                              BICW2
                                                                                         #FLAG_SHUTDNM,FLAG
                                                                                                                           ; Clear the shutdown flag
                                                                              SQIOW_S -
                                                                                                                           : Shut down the device
                                                                                         CHAN = XD CHAN, -
FUNC = #10$ SETMODE!10$M_CTRL!10$M_SHUTDOWN, -
10SB = XD_10SB
                                                                             SFAO_S CTRSTR = SET_PRM,-
DUTLEN = ALT_BUFFER_PTR,-
OUTBUF = ALT_FAO_BUF,-
                                                                                                   = MDEVDSC
                                0116 CF
                                                                              PUSHAL
                                                                                         ALT_BUFFER_PTR
                         08A5 CF
                                              FB
                                                                                         #1, CHECK_IOSB
                                                                                                                           ; Check status
                                                                              CALLS
                                                                   SUC_EXIT:
                                                                              STRNLOG_S LOGNAM = MODE .-
RSLLEN = BUFFER_PTR.-
                                                                                            RSLBUF = FAO_BUF
                                                                                                                             Get the run mode
                                                                                         #LC BITM BUFFER
#^A7L/,BUFFER
                         0014 CF
                                              91
12
AA
D6
                                                                              BICB2
                                                                                                                             Convert to upper case
                     0014 CF
                                                                                                                             Is this a loop for ever?
                                                                              CMPB
                                                                                                                             BR if not
                                                                              BNEQ
                                                                                         #TEST_OVERM, FLAG
                                02EA CF
                                                                              BICAS
                                                                                                                             Reset the termination flag
                         0002°CF
                                                                                         PASS
CTRSTR = PASS MSG, -
OUTLEN = BUFFER PTR, -
                                                                              INCL
SFAO_S
                                                                                                                             Bump the pass count
                                                                                         OUTBUF = FAO_BUF,-
                                                                                                   = PASS -
= ITERATION -
                                                                                                                             Make the end of pass message
                                000C ° CF
                                                                              PUSHAL
                                                                                         BUFFER_PTR
                                                                                                                             Push the string desc.
                                              DF
DD
DD
F8
D4
31
                                                                              PUSHL
                                                                                                                             Push arg count
                                                                                         #UETPS TEXT!STSSK_INFO
#3, G^LTB$SIGNAL
ITERATION
                   00000000°GF 03
                                                                              PUSHL
                                                                                                                             Push the signal name
                                                                                                                             Print the end of pass message
Reset the iteration count
```

CLRL BRW

RESTART

: Do the next pass

02E6'CF

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 CHECKIOSB - Check IO status block 10-SEP-1984 12:03:55
                                                 .SBTTL CHECKIOSB - Check IO status block
                        ; ++
                                        FUNCTIONAL DESCRIPTION:
                                                This routine checks the 10 status block = #SS$_NORMAL
                                         CALLING SEQUENCE:
                                                CALLS #1, CHECK_IOSB
                                         INPUT PARAMETERS:
                                1160
                                                Address of error message
                                1161
                                         IMPLICIT INPUTS:
                                                XD_IOSB is the IOSB from some $QIO
                                         OUTPUT PARAMETERS:
                                1166
1167
                                                NONE
                                         IMPLICIT OUTPUTS:
                                                Exit with status if IOSB not right
                                         COMPLETION CODES:
                                                10 status in STATUS if error
                                         SIDE EFFECTS:
                                                Program exit if error found
                                      CHECK_IOSB:
                                                . WORD
                 0004
                                                          ^M<R2>
      0670'CF
                   B1
12
04
                                                          XD_IOSB, #SS$_NORMAL
                                1181
                                                CMPW
                                                                                         ; Is the QIO O.K.?
                                                                                           Br if not
                                                BNEQ
                                                RET
                                                                                          Return
                                1184 105:
7E 0670'CF
02C6'CF 6E
52 0411'CF
                   3C
DO
DE
91
                                                          XD IOSB,-(SP)
(SP),STATUS
DMP IOSB DUMP,R2
S*#DT$_DMP11,-
                                                MOVZUL
                                                                                           Push the error status code
                                                MOVL
                                                                                           Set return status
                                                MOVAL
                                                                                           Assume we're testing a DMP
                                                CMPB
                                                                                          But are we?
                                                          DIBBUF TO IBSB_DEVTYPE
       0253'
                                1189
                   13
DE
                                                BEQL
      0393°CF
                                                          DMF_IOSB_DUMP,R2
                                                MOVAL
                                                                                         : Get a different string if not
                                      20$:
                                                SFAO_S
                                                          CTRSTR = (R2), -
                                                                                         ; Get the IOSB in plain text
                                                          OUTLEN = BUFFER_PTR,-
                                                          OUTBUF = FAO_BUF,-
                                                                  = a/x0 IOSB --
= a/x0 IOSB +2 --
= a/x0 IOSB +4 --
= a/x0 IOSB +5 --
= a/x0 IOSB +6 --
                                                          P6
                                                                   = @#XD_10SB+7
       000C 'CF
                                                PUSHAL
                                                          BUFFER_PTR
                   000000
                                                PUSHL
                                1204
1205
1206
1207
 00741132 BF
04 AC
                                                          #UETPS_TEXT!STSSK_ERROR 04(AP)
                                                PUSHL
                                                PUSHL
                                                PUSHL
  00741132
                                                PUSHL
                                                          #UETP$_TEXT!STS$K_ERROR
```

UETDMPF00 V04-001

VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Page 30 CHECKIOSB - Check IO status block 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2 (12)

07 DD 0266 31 0916 1208 0918 1209 091B 1210 PUSHL #7
BRW ERROR_EXIT : Argument count
: Error exit

RET

: Go check IO status block

UETI VO4

0680°CF

```
.SBITL Receive data AST routine
                              FUNCTIONAL DESCRIPTION:
                                                       This routine will be called as receive data AST routine
                                                      It checks IO status and compare the data in the receive buffer against the transmit buffer
                                               CALLING SEQUENCE:
                                                       Called via AST at $QIO READ
                                               INPUT PARAMETERS:
                                                      AST parameter = message length
                                               IMPLICIT INPUTS:
                                                      DEVDSC and various text buffers are used in forming error messages
                                               OUTPUT PARAMETERS:
                                                      NONE
                                               IMPLICIT OUTPUTS:
                                                      Error message if error found
                                               COMPLETION CODES:
                                                      in STATUS
                                               SIDE EFFECTS:
                                                      Program exit if error found
                                            RECV_AST:
                              093
                                                       . WORD
                                                                 ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; Entry mask RCV_IOSB,#SS$_NORMAL ; Is the QIO O.K.?
            0678 CF
      01
                                                      CMPW
                                                                RCV_10SB,#S$$_NORMAL
                                                      BNEQ
                                                                                                  Br if not
                              0948
0951
0953
0954
0954
  0880°CF
                                      1286
1287
1288
1288
1289 10$:
                                                       CMPC3
                                                                 4(AP), RECV_BUF, XMIT_BUF; Compare the data
                                                      BNEQ
                                                      RET
                                                      SFAO_S
                                                                CTRSTR = READ_PRM,-
                                                                OUTLEN = ALT_BUFFER_PTR,-
OUTBUF = ALT_FAO_BUF,-
P1 = #DEVDSC
                               0954
                                                                         = #DEVDSC
                              0960
0974
0978
0970
                                                      MOVQ RCV IOSB, XD IOSB
PUSHAL ALT BUFFER PTR
CALLS #1, CHECK IOSB
; Note that we will not return!
                         7D
DF
FB
0670°CF
                                                                                               ; Set up a copy of our error status
             0116'CF
      FF28 CF
                                                                                               ; Take advantage of existing routine
                              097D
                               097D
                                            205:
                              097D
098D
0983
098B
098D
0991
0993
                                                      MOVZBL
                                                                 (R1),-(SP)
(R3),-(SP)
                                                                                                 Save the bad data...
                         9A337F DD
                                                      MOVZBL
SUBL 3
                                                                                                  ... the good data...
        04
                                                                 RO,4(AP),-(SP)
                                                                                                  ... the offset of the mismatch ...
                                                      MOVZUL
                                                                 UNIT_NUMBER, - (SP)
                                                                                                  ... the failing unit...
                                                      PUSHAQ
                                                                DEVDSC
                                                                                                  ... the device name...
                                                                                                  ...and the count of parameters.
                                                       PUSHL
       00748012
                                                                 #UETP$_DATAER!STS$K_ERROR ; ... for our error message
                                                       PUSHL
                                                       PUSHL
                01E3
                                                      BRW
                                                                 ERROR_EXIT
```

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 Half Minute Timer Expiration Routine 10-SEP-1984 12:03:55
                                                                                                VAX/VMS Macro V04-00
LUETP.SRCJUETDMPF00.MAR: 2
                                                                                                                                          (15)
                       .SBTTL Half Minute Timer Expiration Routine
                                     :++
                                       FUNCTIONAL DESCRIPTION:
This routine will be called only if the timer which was set to prevent
                                               program hangs goes off.
                                       CALLING SEQUENCE:
Called via AST at $SETIMR expiration.
                                       INPUT PARAMETERS:
                                               04(AP) Address of a descriptor for an error message
                                       IMPLICIT INPUTS:
                                               DEVDSC and various text buffers are used to for error messages
                                       OUTPUT PARAMETERS:
                                               NONE
                                       IMPLICIT OUTPUTS:
                                               Time out error message
                                       COMPLETION CODES:
                                               NONE
                                       SIDE EFFECTS:
                                              Program exit
                       099E
099E
09A0
                                     TIME_ERR_OUT:
               OFFC
                                               WORD
                                                         ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
                                                        CTRSTR = 004(AP),-
OUTLEN = ALT_BUFFER_PTR,-
OUTBUF = ALT_FAO_BUF,-
P1 = #DEVDSC
                                               SFAO_S
                       09A0
09B8
09BC
09BE
09C4
                 DF
DD
DD
DD
31
     0116'CF
                                               PUSHAL
                                                         ALT_BUFFER_PTR
                                                                                        ; Set up our error message
                              1347
1348
1349
1350
                                               PUSHL
00741132
          8F
                                                         #UETP$_TEXT!STS$K_ERROR
                                               PUSHL
                                               PUSHL
                                                                                       ; Push the argument count total
         0188
                       0966
                                               BRW
                                                         ERROR_EXIT
                                                                                       : Bail out completely
```

UETI Sym

\$\$. \$\$. \$\$. \$\$. \$\$. \$\$. \$\$. \$\$.

ALL ALT ALT ARG BAD BEG BUF BUF BUF CCA

CHA CHE

CHF CHF CHF CHF

CHK CLE CNTI

COMICONICONICS1

DEV DEV

DEVIDEV DIB DIB DIB DIB DIB DMF DMP DT\$

DUM DUM DVI

0002°CF

04

```
.SBITL Three Minutes Timer Expiration Routine
; FUNCTIONAL DESCRIPTION:
This routine will be called when the device test has been run for about three minutes. (that is, one normal run )
               CALLING SEQUENCE:
Called via AST at $SETIMR expiration.
                INPUT PARAMETERS:
                       NONE
                IMPLICIT INPUTS:
                       NONE
                OUTPUT PARAMETERS:
                       NONE
                IMPLICIT OUTPUTS:
                       NONE
                COMPLETION CODES:
                       NONE
               SIDE EFFECTS:
                       Get out the transmit /receive loop test
     1380
1381 TIME_SUC_OUT:
1382 ...WORD
1383 BISW2
RET
0909
0909
0909
0908
                                 ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
                                 #TEST_OVERM, FLAG
                                                        ; set test over bit
```

UETE Symb 10\$P 10\$P 10\$P 10\$P

IOS IOS IOS ITE LC LIB LIM LOOF MAX MAX

HAX MAX MAX MODE MODE MODE MODE NAME NEW NEW

NEW NMA! NMA! NMA! NMA! NOU!

NO F NRA1 OTS1 OUT/ P1BL P2BL P2BL P2BL

PAGE PASS PASS PMTS

PRM PRO

PROP PROP QUAL RAB:

RAB

RAB RAB RAB

RAB RAB RAB

SIDE EFFECTS:

1441

May branch to ERROR_EXIT.

May print a message.

SYS! SYS!

THR

TIM

TIM TIM

TR_

UETC

Symi

SUP

35 (18)

PSE

UETI

Pse

SAB ROD RWD SRM DMP

Ini Com Pas: Syml Pas: Syml Psei Cro:

The 171 The 181 59

ASSI

#ac -\$2 -\$2 -\$2 707 265

MACI

** [

56

58

SA

00741130 8F

57

02C6°CF

02C6°CF

PUSHL

#UETPS_TEXT

UETE

UETI VO4

```
VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 10-SEP-1984 12:03:55
                                                                                                            VAX/VMS Macro V04-00
EUETP.SRCJUETDMPF00.MAR; 2
                                                            .SBTTL CTRL/C Handler
                                   FUNCTIONAL DESCRIPTION:
This routine handles CTRL/C AST's
                                                    CALLING SEQUENCE:
Called via AST
                                                    INPUT PARAMETERS:
                                                           NONE
                                                    IMPLICIT INPUTS:
                                                           NONE
                                                   OUTPUT PARAMETERS:
                                                           NONE
                                                    IMPLICIT OUTPUTS:
                                                           NONE
                                                   COMPLETION CODES:
                                                           NONE
                                                   SIDE EFFECTS:
                                                           NONE
                                                 CCASTHAND:
                           OFFC
                                                            . WORD
                                                                     ^M<R2.R3.R4.R5.R6.R7.R8.R9.R10.R11> : Entry mask
       21 0002 CF
                       05
                                                                     #FLAG_SHUTDNV,FLAG,10$; Have to shut down device?
                             E1
                                                           $010_S -
                                                                                                    ; Shut down the device
                                                                     CHAN = XD CHAN, -
FUNC = #10$ SETMODE!10$M_CTRL!10$M_SHUTDOWN, -
10SB = XD_10SB
                                                 105:
                 00A3'CF
                                                                     CNTRLCMSG
                                                           PUSHAL
                                                                                                      Set message pointer
                                                                                                      Set arg count; Set signal name
                              PUSHL
                                                                     WUETPS_TEXT!STSSK_WARNING
            00741130
                                                            PUSHL
                                                                                                      Indicate an abnormal termination
                                                            PUSHL
                 0220'CF
                                                            PUSHAL
                                                                     PROCESS_NAME
                                                            PUSHL
                                                                     #UETP$ ABENDD!STS$K_WARNING;
#7.G^LIB$SIGNAL Output
#<$T$$M INHIB MSG!- Set the
$$$_CONTROLC--
      007410E0
00000000 GF
                                                            PUSHL
                                                                                                    ; Output the message ; Set the exit status
                                                            CALLS
                                                            MOVL
                                                           STSSK_SUCCESS+STSSK_WARNING>,-
STATUS
SEXIT_S STATUS
; Term
02C6 CF
            10000650 8F
                                                                                                    : Terminate program cleanly
```

```
0B81
0B81
0B81
0B8A
0B90
0B92
0B96
0B96
0BA5
0BA5
0BA5
0BA5
0BA5
0BA5
0BB1
0BC1
0BC5
0BC5
0BD5
          15 0002 CF
                        000F 'CF
                 00741039 8F
        00000000 GF
       0302°CF
                                 00
                 0220 ° CF

000F 0002 8F

0074 10E2 8F

02C2 ° CF

0220 ° CF

00010002 8F

00748022 8F

05 0302 ° CF
                                                                                                 PROCESS NAME
                                                                                                                                               ...arg count...
: ...and signal name
Finish off arg list...
                                          DD
                                                                                    PUSHL
                                                                                                 #UETP$ ABENDD!STS$K_ERROR
ERROR COUNT
PROCESS_NAME
                                          DD
                                                                                    PUSHL
                                          DD
DF
                                                                                    PUSHL
                                                                                    PUSHAL
                                                                                                  #^X1000Z
                                          DD
                                                                                    PUSHL
                                                                                                  #UÊTP$ ERBOXPROC!STS$K_ERROR : ... for error box message ARG_COUNT,G^LIB$SIGNAL ; Truly bitch
                                          DD
                                                                                    PUSHL
00000000 GF
                                                                                    CALLS
                                                  OBDE
                                                  OBDE
OBE 2
OBE 4
                         02C6'CF
                                                                                    TSTL
                                                                                                  STATUS
                                                                                                                                                Did we exit with an error code?
                                                                                    BNEQ
                                                                                                                                                BR if we did
                 007410E2 8F
02C6 CF
                                                                                                  #UETPS_ABENDD!STS$K_ERROR, -: Supply a generic one otherwise
                                                                                    MOVL
                                                                                                  STATUS
```

UETDMPF00 V04-001	VAX/ Erro	VMS UETP DEVICE	E TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Part 10-SEP-1984 12:03:55 EUETP.SRCJUETDMPF00.MAR;2	ge 42 (21)
1F 0002°CF 05	E 1	OBED 1688 20\$ OBED 1689 OBF3 1690 OBF3 1691 OBF3 1692 OC12 1693 30\$ OC12 1694 OC1B 1695	S: BBC #FLAG_SHUTDNV,FLAG,30\$; Have to shut down device? \$QIO_S - ; Shut down the device CHAN = XD_CHAN,- FUNC = #IOS_SETMODE!IOSM_CTRL!IOSM_SHUTDOWN	
02C6°CF 10000000 8F	68	0BF3 1691 0BF3 1692 0C12 1693 30\$ 0C12 1694 0C1B 1695	S: BISL #STS\$M_INHIB_MSG,STATUS; Don't print messages twice! \$EXIT_S STATUS; Exit in error	

UETI VO4

```
.SBTTL Exit Handler
                                                   FUNCTIONAL DESCRIPTION:
                                                                This routine handles cleanup at exit. If the MODE logical name is equated to 'ONE', the routine will update the test flag in the UETINIDEV.DAT file depending on the UETUNTSM_TESTABLE flag state in the UETUNTSB_FLAGS field of the unit block for each unit for the device
                                                                under test.
                                                       CALLING SEQUENCE:
                                                                Invoked automatically by SEXIT System Service.
                                                       INPUT PARAMETERS:
                                                                STATUS contains the exit status.
                                                                FLAG
                                                                            has synchronizing bits.
                                                                DDB_RFA contains the RFA of the DDB record for this device in UETINIDEV.
                                                       IMPLICIT INPUTS:
                                                                UNIT_LIST points to the head of a doubly linked circular list of unit
                                                                                blocks for the device under test.
                                                       OUTPUT PARAMETERS:
                                                                NONE
                                                       IMPLICIT OUTPUTS:
                                                               Various files are de-accessed, the process name is reset, and any necessary synchronization with UETPDEV01 is carried out.

If the MODE logical name is equated to "ONE", the routine will update the test flag in the UETINIDEV.DAT file depending on the UETUNT$M_TESTABLE flag state in the UETUNT$B_FLAGS field of the unit block for each unit for the device under test.
                                                       COMPLETION CODES:
                                                                NONE
                                                       SIDE EFFECTS:
                                                                NONE
                                                   EXIT_HANDLER:
                         OFFC
                                                                            ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
                                                                . WORD
                                                                SSETSFM_S ENBFLG = #0

SSETAST_S ENBFLG = #0

STRNLOG_S LOGNAM = MODE,-
                                                                                                                     Turn off System Service failure mode
                                                                                                                     No more ASTS
                                                                                                                     Get the run mode
                                                                                RSLLEN = BUFFER PTR.-
                                                                                RSLBUF = FAO_BUF
                                                                             #LC_BITM, BUFFER
    0014°CF
                    20
8F
                                                                BICBS
                            91
13
31
                                                                                                                     Convert to upper case
                                            1746
1747
1748
1749
                                                                             #^A70/,BUFFER
                                                                                                                     Is this a one shot?
BR if yes...
0014 CF
                                                                CMPB
                                                                             10$
                                                                BEQL
                                                                                                                     ...else don't update UETINIDEV.DAT
                 00B8
                                                                BRW
                                                                             END_UPDATE
                                                   105:
                                            1750
1751
1752
1753
                                                                                                                    Only update if it's safe 
Else forget it
03 0002°CF
                                                                BBS
                                                                            #SAFE_TO_UPDV,FLAG,20$
                 OOAF
                                                                BRW
                                                                            END_UPDATE
                                                   205:
            OB7C°CF
                            DE
                                                                MOVAL
                                                                            INI_RAB,R10
                                                                                                                  ; Set the RAB address
```

VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 Exit Handler 10-SEP-1984 12:03:55

UETI VO4

VAX/VMS Macro V04-00 EUETP.SRCJUETDMPF00.MAR; 2

UE VO
AG

JETDMPF00 104-001				VAX/VMS Exit Ha	UETP DE	VICE TES	T FOR DM	P 11/ DMF 16-SEP-1984 01:3	24:05 VAX/VMS Macro V04-00 Page (3):55 EUETP.SRCJUETDMPF00.MAR;2
	10 AA	OBCO'CF	06 05	90 00 28 00	71 1754 75 1755		MOVB MOVC3 SGET BLBC	#RABSC_RFA, RABSB_RAC(R10) #6,DDB_RFA, RABSW_RFA(R10)	Set RFA mode Set RFA to DDB Line
5B 0	0A88'CF	75 1E AA 00000A88	50 00 8F 59	E9 00 90 00 01 00 04 00	71 1754 75 1755 7C 1756 85 1757 88 1758 8C 1759 96 1761 98 1761 98 1763	UNIT	MOVB ADDL3 CLRL	#6,DDB RFA, RABSW RFA(R10) RAB = (R10) RO, UPDATE FAILED #RABSC SEQ, RABSB RAC(R10) #UNIT_EIST, UNIT_EIST, R11 R9	Go back to the DDB record If failure then forget it ; Set back to sequential mode ; Set the unit block list header ; Init a counter
		02 08	01 AB 59	E1 00	9D 1764	UNIT_LO	BBC	UETUNTSB_FLAGS(R11),10\$	BR if this unit is not testable Count testable units
			6B 5B ED 59 12 8F	00 01 02 05 05 12 00 12 00 00	9F 1766 A2 1767 A9 1768 AB 1769 AD 1770 AF 1771 B5 1772 BE 1773	10\$:	ADDL2 CMPL BNEQ TSTL BNEQ MOVB SUPDATE BLBC	(R11),R11 R11,#UNIT_LIST UNIT_LOOP R9 20\$ #^A/N/,BUFFER+4	Next unit block Are we full circle in the list? BR if not Any testable units? BR if yeselse disable the DDB recordhere If error then forget it
	000	5B 000A88*8F	68 58 4E	CO 00 01 00 13 00	C1 1775 C4 1776 CB 1777 CD 1778	200.	ADDL2 CMPL BEQL SGET	(R11),R11 R11,#UNIT_LIST END_UPDATE RAB = (R10)	Next unit block Are we full circle in the list? BR if yes Get a record
	00	114'CF 55	35 01	E9 00 8A 00 91 00 12 00 E0 00	D6 1779 D9 1780 DE 1781 E4 1782 E6 1783		BLBC BICB2	#LC_BITM,BUFFER	If error then forget it Convert to uppercase Is it a UCB record? BR if not BR if this unit is testable
	00		AB 8F	90 00	E8 1784 EB 1785 F1 1786 FA 1787		MOVB SUPDATE BLBS	END UPDATE #UETUNT\$V TESTABLE - UETUNT\$B FLAGS(R11),20\$ #^A/N/,BUFFER+4 RAB = (R10) R0,20\$	else disable the UCB recordhere Look at the next record if no error
			AA 50	0.0	FD 1788 FD 1789	UPDATE_	FAILED: PUSHL PUSHL PUSHAL PUSHAL	RAB\$L_STV(R10) RO INIDEV_UPDERR	Do a simple message to tell of the failure
	6E 000	7E 50 00741130 000000'GF	00	EB 00	08 1793 0A 1794 0D 1795 14 1796	END_UPD	BISL2 CALLS	#STS\$S_SEVERITY,RO,-(SP)	Copy the severity from RMS status
		000F	00 CF 02 00 03	DD OD DD OD EF OD	00 1790 02 1791 06 1793 08 1793 08 1793 08 1793 08 1795 18 1796 18 1796 18 1796 18 1796 18 1796 18 1806 23 1806 24 1806 25 1806 35 1806 35 1806 35 1806 35 1806	CND_OFD	PUSHL PUSHAL PUSHL EXTZV	#0 TEST_NAME #2 #STS\$V_SEVERITY,- #STS\$S_SEVERITY,-	Set the time flag Push the test name Push arg count Push the proper exit severity
	6E	7E 02C6' 00741080 51	°CF 8F 04 5E	C8 OD OD OD OD	26 1803 2A 1804 31 1805 33 1806 36 1807 45 1808		BISL2 PUSHL MOVL	#UETPS_ENDEDD,(SP)	and use it in our message code
				04 00	45 1808 50 1809		SSETPRN RET	S MSGVEC = (R1) S PRCNAM = ACNT_NAME	Output the message Reset the process name That's all folks!

UETDMPF00 V04-001 VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 Page 45 Exit Handler 10-SEP-1984 12:03:55 EUETP.SRCJUETDMPF00.MAR;2

0051 1811

.END UETDMPF00

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65 72

6E 63

UETDMPF00 Symbol table	VAX/VMS UETP	DEVICE		4 01:24:05 VAX/VMS Ma 4 12:03:55 [UETP.SRC]	cro V04-00 LUETDMPF00.MAR;2	Page 46
\$\$.TAB \$\$.TABEND	= 00000068 R = 000000AC R = 00000000 = 00000001 = 0000006A = 00000016 R	03	END_UPDATE ERRCNT_BUF ERRCNT_LEN ERRCOUNT_DESC ERROR_CCONT ERROR_EXIT ERROR_TEST ERRTEST_MSG ERRTST_PZBUF ERRTST_PZBUF ERRTST_PZLEN ESC	0000001B R 00000470 R 00000200 00000468 R 000002C2 R 00000663 R 00000663 R 0000060F R 00000460 R 00000460 R 00000458 R = 00000008 = 0000001B 000002F2 R	05 03	
SS.TMP1	= 00000000 = 00000001		ERRONT LEN	= 00000200 00000468 R		
\$\$.TMP2	= 0000006A	04	ERROR_CCONT	000002C2 R	03 03 05 05 02 05 03	
SS.TMPX SS.TMPX1	= 00000000 R	04	ERROR_TEST	00000663 R	05	
SST1 SST2	= 00000000 = 000000001 = 000000006 000000000 R 00000011E R 00000116 R 0000010E R 00000302 R		ERRTEST MSG ERRTST FRR	000005C0 R	02 05	
ACNT_NAME	00000000 R	02	ERRIST P2BUF	00000460 R	03	
ALL SET ALT BUFFER	000003E8 R	03	ERRIST_P2LEN	= 00000008	03	
ALT BUFFER PTR ALT FAO BUF	00000116 R 0000010E R	03 03 03 03		= 00000018 000002F2 R	03	
ALT BUFFER ALT BUFFER PTR ALT FAO BUF ARG COUNT BAD DATA	00000302 R	03	EXIT_DESC EXIT_HANDLER FABSB_BID FABSB_FNS FABSC_BID FABSC_BLN FABSC_VAR FABSL_ALQ FABSL_ALQ FABSL_FNA FABSL_FNA FABSL_FOP FABSL_STS FABSL_STS FABSL_STV FABSV_CHAN_MODE FABSV_FILE_MODE FABSV_FILE_MODE FABSV_FILE_MODE FABSV_FILE_MODE FABSV_PUT	00000C26 R	03	
BEGIN_MOUM	= 00000008	03	FAB\$B_FNS	= 00000000 = 00000034 = 00000003		
BEGIN MSGV BUFFER	= 00000008 00000014 R 00000000 R 0000030A R 00000308 R 00000823 R 00000845 R	03	FABSC_BID FABSC_BLN	- 00000050		
BUFFER PTR	0000000C R	03 03 03 05 05	FABSCISEQ	= 00000000 = 000000002 = 00000010 = 0000002C = 00000004 = 00000008 = 00000000C = 000000002		
BUF_DESC BUF_LEN CCASTHAND	00000308 R	03	FABSLIALQ	= 00000010		
CHAN BUE	00000B25 R 00000312 R	05	FABSL_DEV FABSL_FNA	= 00000040 = 0000002C		
CHECK TOSB	000008A5 R	05	FABSLEOP	= 00000004		
CHF\$L_SIG_ARG1	= 00000008		FABSL_STV	= 00000000		
CHECK_IOSB CHF\$L_SIGARGLST CHF\$L_SIG_ARG1 CHF\$L_SIG_ARGS CHF\$L_SIG_NAME CHK_QIO_AST	= 00000004 = 00000000 = 00000000 = 00000004 00000708 R		FABSV_CHAN_MODE FABSV_CR	= 00000002 = 00000001		
CHK QTO AST CLEAN EXIT	0000091B R	05	FABSV_FILE_MODE	= 00000001 = 00000004 = 00000001		
CNTRLCMSG	UUUUUUA3 K	05 05 02 05 02	FABSV_LNM_MODE	= 00000000		
COMMON COMP_STATUS_MSG	00000AEA R 000004AF R	05	FARSVILLED	= 00000000 = 00000011		
CONTROLLER CONT_DESC	00000031 R	02	FABSV UPD FABSV UPI FABSU GBC	= 0000001 = 00000006 = 00000048 00000898 R 0000001FD R		
(51	00000082 R	02 02 02 03 03	FABSU_GBC	= 00000048		
CS3 DDB_RFA	00000094 R 00000BCO R	02	FAIL OUT FAO BUF FILE	00000898 R 00000004 R	05	
DEAD CTRLNAME DEVSO TRM	000000E4 R = 00000002	02	FILE FIND_IT	000001FD R	05 03 02 05 03	
DEVDEP_SIZE	= 00000000		FLAG	00000002 R	03	
DEVDSC DEVNAM_LEN	0000031 R 000001F5 R 00000082 R 00000094 R 000000E4 R = 00000002 = 00000000 00000218 R 00000237 R	03 03 03	FLAG_SHUTDNM FLAG_SHUTDNV	000001E1 R 00000002 R = 00000020 = 0000005		
DEV_NAME DIB	00000237 R	03	FOUND IT	00000279 R	05 03	
DIB\$B_DEVCLASS	= 00000004	03	GOOD BATA HALFMIN	000001E5 R	ŎŹ	
DIBSB_DEVTYPE DIBSK_LENGTH	= 000000074		ILLEGAL REC INADDRESS	00000151 R	03	
DIBBUF DMF_IOSB_DUMP	00000246 R = 00000004 = 00000005 = 00000074 0000024E R 00000393 R	03	INIDEV UPDERR	000001B8 R	02 02 03 02 03	
DMP_IOSB_DUMP	00000411 R	03	INIDEV UPDERR INI_FAB INI_RA2 INPOT_ITMLST	00000277 R 000001E5 R 00000151 R 000002D2 R 000001B8 R 00000B2C R 00000B7C R	03	
DTS DMP11 DUMMY_FAB	00000C18 R	03	IOSM_CLR_COUNT	******	05	
DUMMY RAB DV15 DEVNAM	00000068 R = 00000020 = 0000004	03	IOSM_CLR_COUNT IOSM_CTRE IOSM_CTRLCAST IOSM_NOW	******* X	02 05 05 05 05	
EFN2	= 00000004		IOSM_NOW	******* X	ŎŚ	

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UETDMPF00 Symbol table	VAX/VMS UETP	DEVICE TEST	FOR DMP 11/ DMF	16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;	Page 47
IOSM_RD_COUNT IOSM_SHUTDOWN	****** X		RABSL_STS RABSL_STV RABSV_PMT RABSW_RFA RABSW_RSZ	= 00000008 = 0000000C	
IDSM_STARTUP	*******	05 05 05 05 05 05	RABSL STV	= 0000000C = 0000001E	
OS_READVBLK	******* X	ŎŚ	RABSW_RFA	= 00000010	
OS_SENSEMODE	****** X	05	RABSWIRSZ	= 00000010 = 00000022 00000678 R 03 00000778 R 05	
OS SETMODE OS WRITEVBLK	******	05	RCV IOSB READ_ERRCOUNT	00000678 R 03 00000778 R 05 0000031A R 02	
TERATION	000002E6 R	03	READ PRM		
C BITM IBSSIGNAL	= 00000020	20	READ SIZE	= 00000000	
IMIT	= 00000010 X	05	RECEIVED_MSG RECORD	000004E7 R 02 00000209 R 02 00000581 R 05	
OOPBACK TEST	0000051D R	05	RECV	00000581 R 05	
AX_DEV_BESIG AX_MSG_LEN AX_PROC_NAME	= 0000000A		RECVPOOL_SIZ RECV_AST RECV_BUF RECV_EFN	= 00000004	
AX PROT NAME	= 00000200 = 0000000F		RECV_AST	0000093F R 05 00000880 R 03	
AX_UNIT_DESIG	= 00000005		RECV EFN	= 00000008	
ODE	00000041 R	02	RECVERR_MSG REC_SIZE RESTART	000004FF R 02	
ODE_IS_ONEM ODE_IS_ONEV	= 00000010 = 0000004		REC SIZE	= 00000028	
SG BLOCK	000002EE R	03	RMSS_BLN	0000043D R 05	
AME I CAI	= 000000F		RMS\$_BUSY	***** X 02	
EW NODE MASC LINCN LOO MASC LINPR POI MASC PCCI TRI MASC PCLI CON MASC PCLI PRO OUNIT SELECTED D CTRENAME	00000A90 R	03	RMS\$_CDA	0000043D R 05 ****** X 02 ****** X 02 ****** X 02	
MASC LINER POI	= 00000001 = 0000000		RMSS FAB	= 00000001	
ASC_PCCI_TRI	= 00000474		RMS\$ RAB	****** X 02	
MASC_PCLI_CON	= 00000474 = 00000456		RMS_ERROR	00000AB4 R 05 00000217 R 02	
MASC PCLI PRO	= 00000458 0000012B R	02	RMSS FACILITY RMSS RAB RMS ERROR RMS ERR STRING RW TIME ID RW TO MSG SAFE TO UPDM SAFE TO UPDV SECSM EXPREG	00000217 R 02	
O CTRENAME	000000C4 R	05 05 05	RW TO MSG	= 00000003 00000275 R 02	
O KUD VOI INDEE	0000004D R	ÖŽ	SAFE_TO_UPDM	= 00000004	
RAT_LENGTH	= 00000014		SAFE TO UPDV	= 00000002	
TS\$CVT_TI_L UTADDRESS	000002DA R	05 03 03	SECSM_GBL	******* X 05 00000541 R 02	
1BUF	00000386 R	03	SENSE_ERRMSG	00000541 R 02	
2BUF	0000039E R 00000396 R	03 03	CENCE BIOLIC	000003B8 R 03 000003C8 R 03 000003C0 R 03	
2BUF_DESC 2BUF_LEN	= 00000396 R	0.5	SENSE PIBUP SENSE P2BUF SENSE P2DESC SENSE P2LEN SENSE TEST SET PRM SET XMIT BUF SHR\$ ABENDD SHR\$ BEGIND SHR\$ ENDEDD	000003C8 R 03	
AGES	= 00000001		SENSE PZLEN	= 00000090	
ASS	= 00000001 000002EA R 00000185 R	03	SENSE PRM		
ASS_MSG MTSIZ	00000185 R	05	SENSETEST	000005D6 R 05	
RM	= 00000019 = 00000064		SET YMIT BUF	00000366 R 02 00000528 R 05	
ROCESS_NAME	00000220 P	03	SHR\$_ABENDD	= 000010E0	
ROCESS NAME FREE	= 0000000B 0000008B R 00000238 R 000002CA R	AF	SHR\$_BEGIND	= 00001038	
ROC CONT NAME	00000008 R	05 02 03	SHR\$ OPENIN	= 00001080 = 00001098	
UAD_STATUS	000002CA R	03	SHR\$ TEXT	= 00001098 = 00001130 = 00000014 = 00000651	
AB\$B_PSZ	= 00000034 = 0000001E		SSS BADPARAM	= 00000014	
ABSB RAC	= 0000001E		SS\$_BUFFEROVF	= 00000601	
AB\$C BLN	= 00000001		SS\$ BUFFEROVF SS\$ CONTROLC SS\$ ENDOFFILE	= 00000870	
ABSC_BID ABSC_BLN ABSC_RFA	= 00000044 = 00000002 = 00000000		558_NORMAL	= 0000001	
ABSC SEQ	= 00000000		SS\$ NOSUCHSEC	= 00000978	
ABSL_CTX ABSL_FAB ABSL_PBF	= 00000018 = 000003c		SS\$ SSFAIL SS\$ WASSET	= 00000450	
AB\$L PBF	= 00000030 = 0000004		SSERROR	= 0000045C = 00000009 00000901 R 05	
AB\$L_ROP	= 00000004		SS SYNCH EFN	= 00000003	

UET VO4

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VAX/VMS UETP DEVICE TEST FOR DMP 11/ DMF 16-SEP-1984 01:24:05 VAX/VMS Macro V04-00 10-SEP-1984 12:03:55 [UETP.SRC]UETDMPF00.MAR;2
 UETDMPF00
                                                                                                                                                                                                                                                                                         Page
 Symbol table
                                                                                                                                                                                                          = 000003AA
= 00000000
000000000
= 00740000
= 007410E0
= 0074832B
= 00748010
= 00748333
= 00748020
= 00741080
= 00741080
= 00741080
= 00741098
= 00741130
= 00741130
= 0000000B
= 00000008
START_CONT_PRM
START_TEST
START_TO_MSG
START_TRI
START_TRIB_PRM
STATUS
                                                                            00000461 R
000002A2 R
00000407 R
00000251 R
00000492 R
000002D0 R
000002C6 R
                                                                                                                                     TR_P2BUF_DESC
TR_P2BUF_LEN
TTCHAN
                                                                                                                                                                                                                                                   03
                                                                                                                                                                                                                                                   03
                                                                                                                                                                                                                                    R
                                                                                                                                     UETDMPF00
                                                                                                                                    UETPS-ABENDD
UETPS-ABORTC
UETPS-BEGIND
UETPS-DATAER
UETPS-DEUNUS
UETPS-DEUNUS
UETPS-ENDEDD
UETPS-ENDEDD
UETPS-FACILITY
UETPS-OPENIN
UETPS-OPENIN
UETPS-TEXT
UETUNTSB-TYPE
UETUNTSC-FAB
UETUNTSK-FAB
UETUNTSW-TESTABLE
UETUNTSW-SIZE
UNIT_LIST
UNIT_LOOP
UNIT_NUMBER
UPDATE-FAILED
                                                                                                                                     UETP
 STR$UPCASE
STRSUPCASE
STSSK_ERROR
STSSK_INFO
STSSK_SUCCESS
STSSK_WARNING
STSSM_INHIB MSG
STSSS_FAC_NO
STSSS_SEVERITY
STSSV_FAC_NO
STSSV_SEVERITY
SUC_EXIT
SUPDEV_GBLSEC
SUP_FAB
SYSSASSIGN
SYSSCANTIM
                                                                            ******
                                                                       = 00000002
                                                                            00000003
                                                                       = 00000001
                                                                       = 00000000
                                                                       = 0000000C
                                                                       = 00000003
                                                                       = 00000010
                                                                            00000000
                                                                            00000810 R
00000020 R
00000BCB R
                                                                                                                                                                                                            = 00000008
                                                                                                              = 00000110
                                                                                                                                                                                                            = 000001A4
                                                                                                                                                                                                            = 00000110
                                                                            ******
 SYS$CANTIM
                                                                                                                                                                                                            = 00000160
 SYS$CONNECT
                                                                                                                                                                                                            = 00000002
                                                                                                                                                                                                            = 00000014
 SYS$CRMPSC
 SYSSDCLEXH
                                                                                                                                                                                                           = 00000001
 SYSSEXIT
                                                                                                                                                                                                            = 00000009
                                                                                                                                                                                                               000001ED R
00000A88 R
00000C98 R
000002E2 R
00000CFD R
 SYSSEXPREG
                                                                                                                                                                                                                                                   03
05
05
05
05
05
05
SYS$FAO
SYS$GET
SYSSGETDEV
                                                                                                                                     UPDATE FAILED WRITE PRM WRITE SIZE
                                                                            ******
SYSSGETDVI
                                                                                                                                                                                                           000002FD R
SYSSGE TMSG
                                                                            ******
SYS$INPUT
                                                                            00000061 R
                                                                                                                                                                                                          = 00000000
00000306
00000670
= 00000002
00000556
00000680
                                                                                                                                     XD_CHĀN
XD_IOSB
                                                                                                                                                                                                                                                   03
                                                                            ******
SYS$MGBLSC
SYS$OPEN
                                                                                                                                     XMSM_CHR_LOOPB
SYS$PUTMSG
                                                                                                                                                                                                                                                  05
SYSSQIO
                                                                                                                                     XMIT
SYSSQIOW
                                                                                                                                     XMIT_BUF
                                                                                                                                     XMIT_EFN
                                                                                                                                                                                                           = 00000005
 SYS$SETAST
 SYS$SETIMR
                                                                            ******
 SYS$SETPRN
                                                                            ******
 SYS$SETSFM
                                                                            ******
SYS$TRNLOG
                                                                            ******
 SYSSUPDATE
 SYS$WAITER
                                                                            ******
                                                                           00000A98 R
00000AE8 R
0000000F R
SYSIN_FAB
SYSIN_RAB
 TEST_NAME
                                                                      = 00000002
= 00000001
= 000000FA
 TEST_OVERM
 TEST_OVERV
TEXT_BUFFER
                                                                           000001DD
0000099E
00000001
000009C9
0000038E
000003B2
                                                                                                              02
05
 THREEMIN
TIME_ERR OUT
TIME_ID_T
TIME_SUC_OUT
TR_PTBUF
                                                                                                              05
03
03
 TR_P2BUF
```

UETI VO4-

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Page

! Psect synopsis !

PSECT name	Allocation		ributes			
SABS . SABS RODATA RWDATA SRMSNAM DMPF	00000000 (0.) 00000000 (0.) 000005DC (1500.) 00000CAC (3244.) 00000023 (35.)	00 (0.) NOF 01 (1.) NOF 02 (2.) NOF 03 (3.) NOF 04 (4.) NOF 05 (5.) NOF	IC USR CON IC USR CON IC USR CON	ABS LCL NOSHR ABS LCL NOSHR REL LCL NOSHR REL LCL NOSHR REL LCL NOSHR REL LCL NOSHR	NOEXE RD NOEXE RD EXE RD	NOWRT NOVEC BYTE WRT NOVEC BYTE NOWRT NOVEC PAGE WRT NOVEC BYTE NOWRT NOVEC PAGE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	40	00:00:00.07	00:00:00.58
Command processing Pass 1	141	00:00:00.67	00:00:05.85
Pass 1	1114	00:00:30.70	00:01:12.41
Symbol table sort	9	00:00:03.39	00:00:07.81
Pass 2	472	00:00:07.37	00:00:16.21
Symbol table output	39	00:00:00.30	00:00:01.08
Psect synopsis output	4	00:00:00.04	00:00:00.06
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	1822	00:00:42.55	00:01:44.02

The working set limit was 2000 pages.
171259 bytes (335 pages) of virtual memory were used to buffer the intermediate code.
There were 130 pages of symbol table space allocated to hold 2362 non-local and 39 local symbols.
1811 source lines were read in Pass 1, producing 41 object records in Pass 2.
59 pages of virtual memory were used to define 52 macros.

! Macro library statistics !

Macro library name \$255\$DUA28:[UETP.OBJ]UETP.MLB:1 \$255\$DUA28:[SYS.OBJ]LIB.MLB:1 \$255\$DUA28:[SYSLIB]STARLET.MLB:2 TOTALS (all libraries) Macros defined 2 46 47

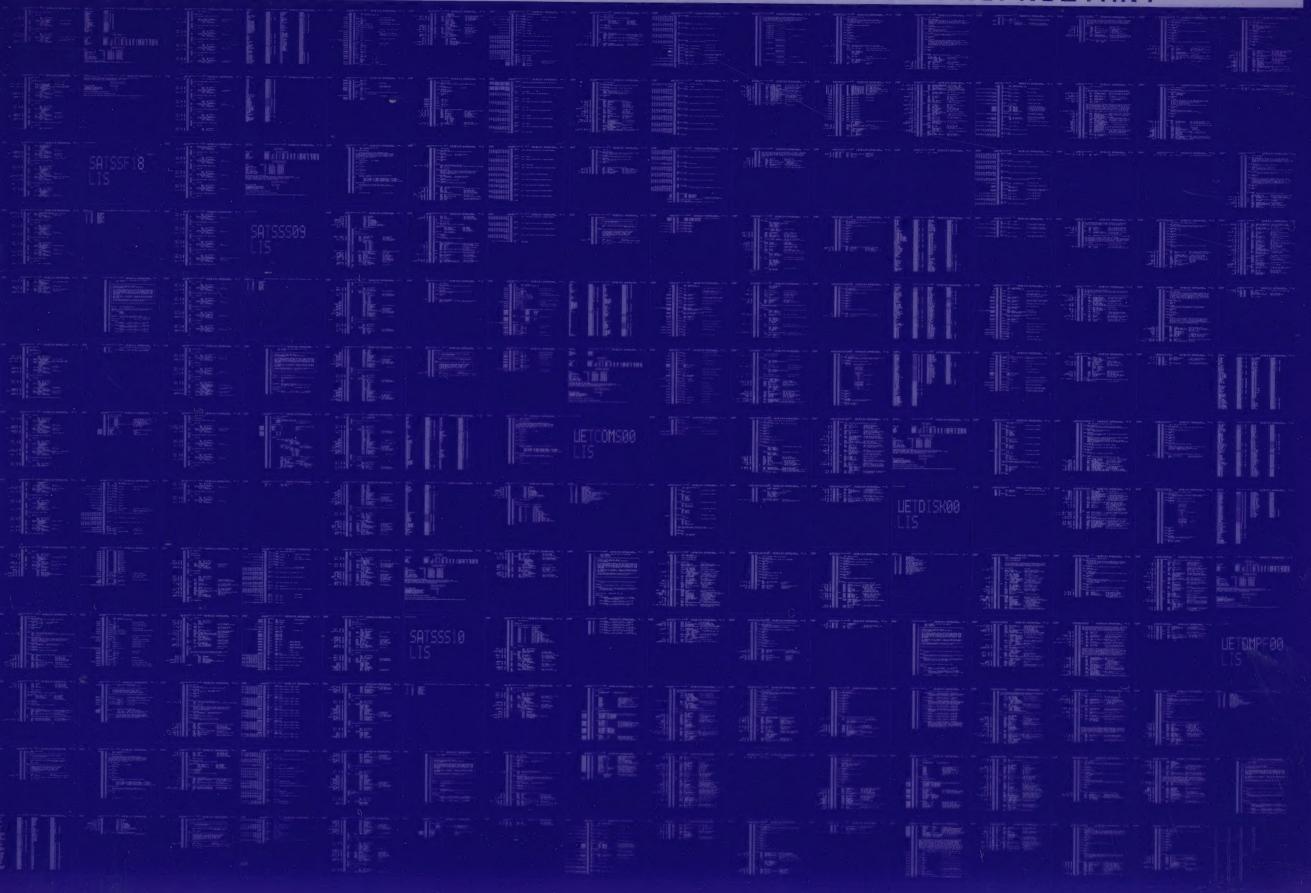
2653 GETS were required to define 49 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:UETDMPF00/OBJ=OBJ\$:UETDMPF00 MSRC\$:UETDMPF00/UPDATE=(ENH\$:UETDMPF00)+EXECML\$/LIB+LIB\$:UETP/LIB

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0411 AH-BT13A-SE

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